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Stereo Review confirmed the unqualified sonic superiority of Matthew Polk's revolutionary SDA Technology when they wrote, "These speakers *always* sounded different from conventional speakers — and in our view better — as a result of their SDA design.

Without exaggeration, the design principals embodied in the SDAs make them the world's first true stereo speakers. The basic concept of speaker design was never modified to take into account the fundamental difference between a mono and stereo signal. The fundamental and basic concept of mono is that you have one signal (and speaker) meant to be heard by both ears at once. However, the fundamental and basic concept of stereo is that a much more lifelike three-dimensional sound is achieved by having 2 different signals, each played back through a separate speaker and each meant to be heard by only one ear apiece (L or R). So quite simply, a mono loudspeaker is designed to be heard by two ears at once while true stereo loudspeakers should each be heard by only one ear apiece (like headphones). The revolutionary Polk SDAs are the first TRUE STEREO speakers engineered to accomplish this and fully realize the astonishingly lifelike three-dimensional imaging capabilities of the stereophonic sound medium.

"A stunning achievement" *Australian HiFi*

Polk SDA Technology solves one of the greatest problems in stereo reproduction. When each ear hears both speakers and signals, as occurs when you use conventional (Mono) speakers to listen in stereo, full stereo separation is lost. The undesirable signal reaching each ear from the "wrong" speaker is a form of acoustic distortion called interaural crosstalk, which confuses your hearing.

"Literally a New Dimension in the Sound *Stereo Review Magazine*

The Polk SDA systems eliminate interaural crosstalk distortion and maintain full, True Stereo separation, by incorporating two completely separate sets of drivers (stereo and dimensional) into each speaker cabinet. The stereo drivers radiate the normal stereo signal, while the dimensional drivers radiate a difference signal that acoustically and effectively cancels the interaural crosstalk distortion and thereby restores the stereo separation, imaging and detail lost when you listen to normal "mono"speakers. The dramatic sonic benefits are immediately audible and remarkable.

"Mindboggling, astounding, flabbergasting" *High Fidelity Magazine*

Words alone cannot fully describe how much more lifelike SDA TRUE STEREO reproduction is. Reviewers, critical listeners and novices alike are overwhelmed by the magnitude of the sonic improvement achieved by Polk's TRUE STEREO technology. You will hear a huge sound stage which extends not only beyond the speakers, but beyond the walls of your listening room itself. The lifelike ambience revealed by the SDAs makes it sound as though you have been transported to the acoustic environment of the original sonic event. Every instrument, vocalist and sound becomes tangible, distinct, alive and firmly placed in its own natural spatial position. You will hear instruments, ambience and subtle musical nuances (normally masked by conventional speakers), revealed for your enjoyment by the SDAs. This benefit is accurately described by Julian Hirsch in Stereo Review, "...the sense of discovery experienced when playing an old favorite stereo record and hearing, quite literally, a new dimension in the sound is a most attractive bonus..." Records, CDs, tapes, video and FM all benefit equally as dramatically.

"You owe it to yourself to audition them." *High Fidelity Magazine*

SDAs allow you to experience the spine tingling excitement, majesty and pleasure of live music in your home. You must hear the remarkable sonic benefits of SDA technology for yourself. You too will agree with Stereo Review's dramatic conclusion: "the result is always better than would be achieved by conventional speakers...it does indeed add a new dimension to reproduced sound."

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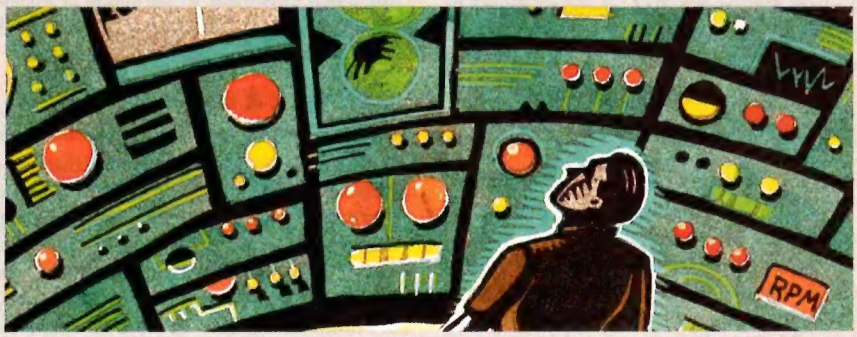
FEATURES

How to Buy a Stereo System 6
by William Burton
Setting Up Your Stereo System 18
by Ian G. Masters

PRODUCT LISTINGS

Receivers 43
Power Amplifiers 61
Preamplifiers 73
Integrated Amplifiers 83
Tuners 88
Compact Disc Players 94
Cassette Decks 106
Turntables 119
Cartridges & Tonearms 126
Speakers 136
Headphones 182
Signal Processors 191
Accessories 198
Pocket Stereo 214
Blank Tape 218

Audio Glossary 221
Directory of Manufacturers 226



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Cover components: at left, Sota Star Sapphire turntable (see product listing on page 124) with Sumiko Premier MMT tonearm (page 131) and Talisman B cartridge (page 135); NEC SW-300 subwoofer (page 166). At right, JBL Pro III mini-monitor speakers (page 156); NAD 6300 cassette deck (page 111); Pioneer CLD-1010 CD/CDV/LV player (page 100); AR X-10 receiver (page 43); a/d/s B3 storage module (page 198).

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Stereo Review's
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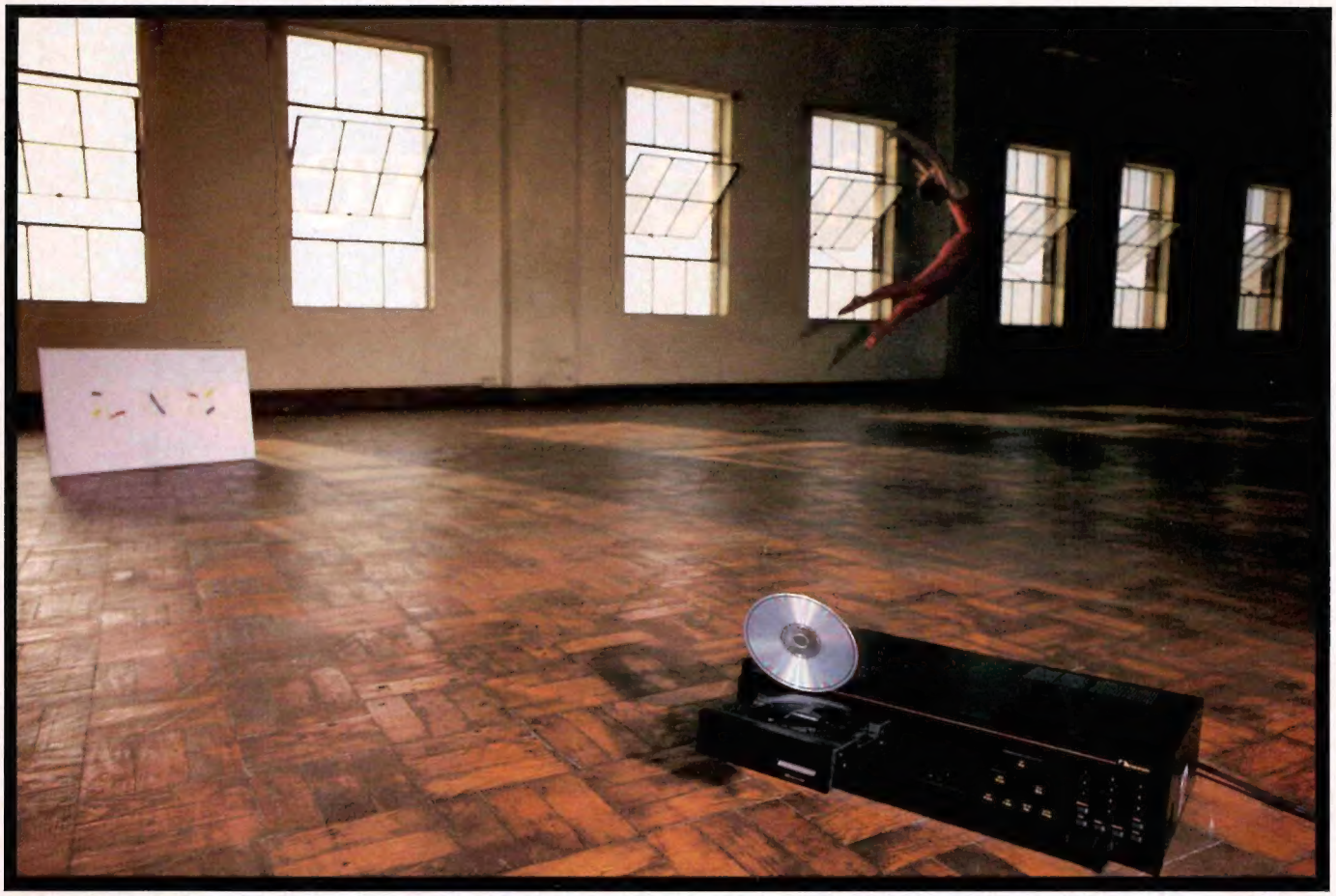
You may have heard music like this in a dream.



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HOW TO BUY A STEREO SYSTEM

Shopping for a stereo system—or just one component—can be fun. Preparing thoroughly makes all the difference.

by William Burton

A GOOD stereo system can create the illusion that musicians are performing live in your living room or that your armchair is the best seat in the concert hall. If you read about stereo components, for comparing features and performance, and take your time when you go shopping, you can have a system that brings the pleasures of high-fidelity music into your home.

The first thing you should do when you start searching for a system—or even a single component—is to set a budget. (The prices given in this guide are the manufacturers' *suggested* retail prices. Stores are free to set prices as they wish, and they may cut as much as one-half off the suggested list price.) If you want to buy an entire system, you need to allocate your total budget among the various individual components you want. Starting with fewer components means you can afford better ones. A simple system might consist of a source component (compact disc player, cassette deck, or turntable), a receiver, and speakers. You can add other components later. For a $1,000 system, you might budget $250 for a program source, $250 for a receiver, and $500 for speakers.

Dollars are not the only numbers associated with buying stereo components: You will also see many specifications that measure their performance. Specs can be useful because they help you compare components. The "Audio Glossary" starting on page 221 explains many common audio specs, technical terms, features, and functions.

Buying a System

If you are choosing components for an entire system, you should first decide which types of components you want. These decisions can be made in three steps: selecting your speakers, choosing a type of amplifier, and deciding on source components.

If you take these decisions one at a time, you can put together a good system within your budget. When you divide your money between speakers, amplification, and sources, you may have to choose between an elaborate system with many inexpensive components and a more basic system with a few high-quality ones.

While source components produce the musical signal, and amplifiers and receivers process and strengthen it, the last link in the chain is the most important—the speakers. Speakers

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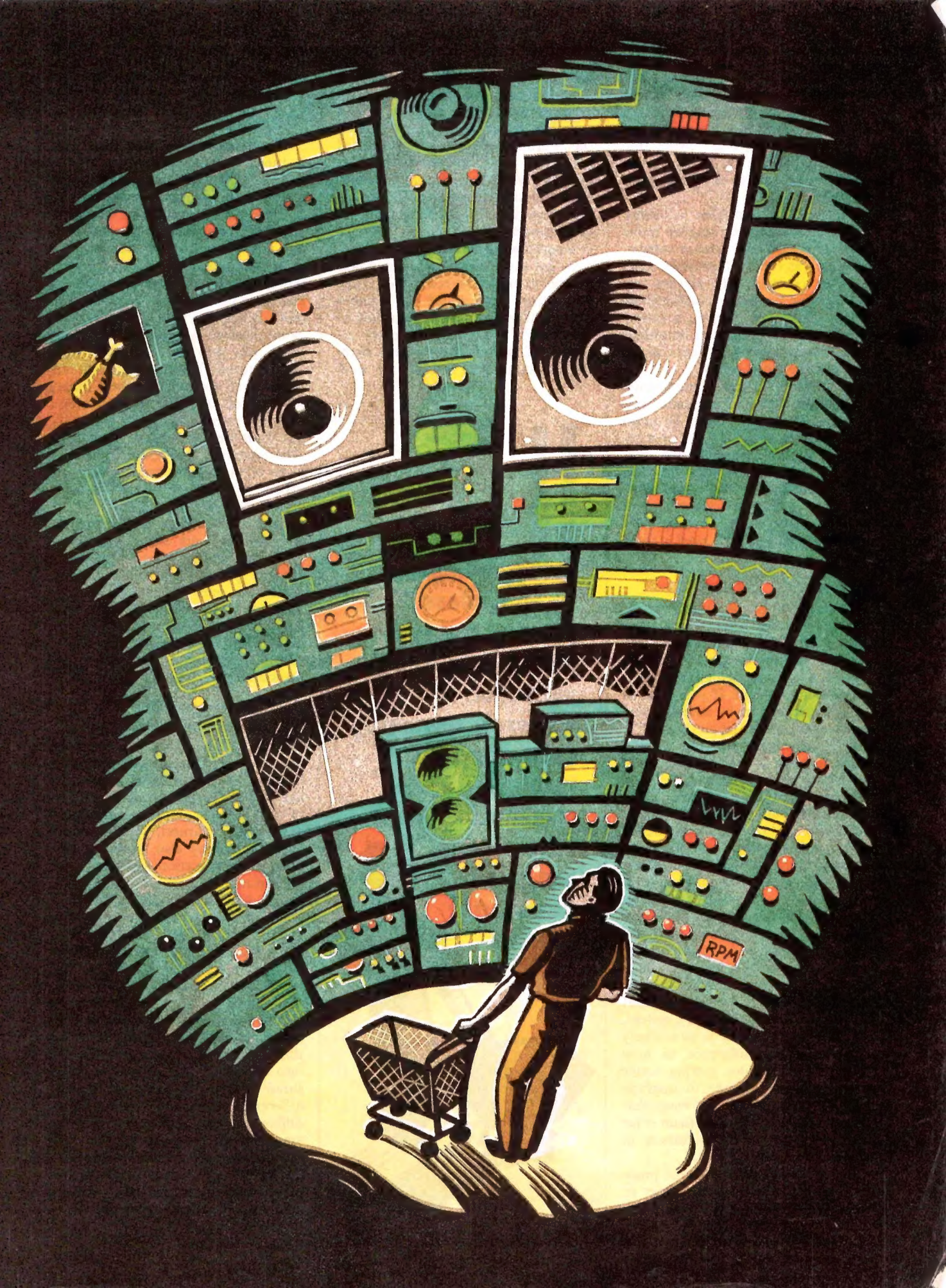
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turn the electrical signal coming from the receiver or amplifier into sound. Whether you are selecting speakers for your first system or upgrading the speakers you have, don't make this decision lightly. Speakers affect the sound you hear more than any other component.

You need an amplifier of some kind because speakers require more electrical power than source components such as tuners, turntables, tape decks, or compact disc players can provide. The necessary amplification may be done by a receiver, a power amplifier, or an integrated amplifier. The differences between these components are explained below.

In choosing source components, consider the types of programs you will want to hear. To listen to radio broadcasts, you need a tuner or a receiver. To play compact discs, you need a CD player. To play cassettes and to record music or spoken-word programs from other sources, you need a cassette deck. To play LP's and 45-rpm singles, you need a turntable.

Upgrading Hints

If you are upgrading your system, you may already have a good idea which component is the weakest link in it. If something breaks and you decide it's not worth fixing, your decision is made for you. If you want to upgrade your system by adding a new source component (such as a CD player), you again have your answer. Unfortunately, it is not always so easy to upgrade a system.

Perhaps you only have a vague feeling that your system is just not as good as it could be. If so, try to define what is missing—this will help you focus on which components need upgrading. If you want more bass, larger speakers or a subwoofer could be the answer. Upgrading your speakers can easily lead to upgrading your amplification, however, since large speakers that move a lot of air may demand more power.

Because speakers are so important in defining the sound of any system, changing to a new pair is most likely to make a big difference in how things sound. Besides seeking better sound, you may decide to upgrade other components if you want features they lack or if one of them is far below the quality of the others in your system.

If poor radio reception is the problem, you can upgrade your tuner or receiver—although the greatest improvement will probably come from a better antenna. Another common upgrade is replacing a receiver with a complete set of separates or making the intermediate step to an integrated amplifier with separate tuner. Because separates specialize in one function—tuning, controlling, or powering—they usually outperform all-in-one receivers.

Upgrading can be an endless process, but the path towards sonic perfection is endlessly rewarding. Take your time, read about the components you're interested in, and talk to trustworthy experts. Then each upgrade will improve your system without depleting your budget for such other things as recordings and concert tickets.

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Receivers

A receiver handles three main jobs: it tunes in radio stations, switches and processes all source signals, and makes these signals powerful enough to drive the speakers. You can think of a receiver as a tuner, preamplifier, and power amplifier in one box.

In fact, you can read about tuners, power amplifiers, and preamplifiers and get a good idea of the choices to make when buying a receiver. Because receivers are all-in-one package deals, you may have to make some compromises. The most powerful receiver may not have the best tuning section, for example, or the receiver with the most input jacks may have the least flexible signal processing. And receivers that excel in one or more of these areas tend to be more expensive than basic and ordinary receivers. So what do you do?

First, look back at your budget. Ignore the receivers out of your price range. Forget about the ones without enough power for your speakers. Avoid the ones that might damage your speakers with too much power. From the remaining models, you can make your final choice on the basis of tuning, switching, or processing features and overall performance.

Power Amplifiers

Most power amplifiers have only one control, a button to turn it on and off. Although most amplifiers today use only transistors, some still use vacuum tubes instead. The sound of tube amps is sometimes described as "warm," "natural," or "musical." Tube amps may also, however, produce more distortion and less power for the money than solid-state (transistor) amps. You should listen to both types to decide if you prefer one or the other. But remember that while each amplifier sounds different from every other one, most casual listeners cannot hear those differences.

Measuring the power produced by a power amplifier is not simple. The specification for power may look like this: "100 W/ch [watts per channel] into 8 ohms." The impedance, measured in ohms, is important because different speaker impedances draw different amounts of power from an amplifier. Other specs tell you how much power the unit can produce for brief periods, which is important because music contains many short, loud sounds such as drum beats.

FIRST CAME THE CD
THEN CAME THE SPEAKER

SPL monitors

Since the invention of the **Compact Disc,** speaker companies have been talking about how their speakers are **"digital ready".** This seems odd when except for the addition of **"digital ready"** stickers, many name brand speakers are pretty much what they were in the days of analogue.

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Check for yourself at your nearest **SPL Monitor** Dealer. Be surprised at how great this digital sound miracle of **CD** and **DAT** really can be.

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Preamplifiers

Preamplifiers switch and process the signals from source components and pass them on to a power amplifier. If you have a lot of signal sources, make sure the preamp you select has enough inputs for them. If you want a lot of control over the sound, look for signal-processing circuits in the preamp or jacks that allow easy connection of separate signal processors such as equalizers or dynamic-range expanders.

Some audiophiles hear significant differences between preamps, while others hear little difference and cite specifications that imply few of the differences could be audible. Ideally, a preamp would handle music signals without adding noise or distortion, and most do add very little noise or distortion. If you want to choose a preamp by ear, compare models by playing the same recording on the same turntable, CD player, or tape deck and listening through the same pair of headphones. Then you can be sure that any differences you hear are in the preamps, not in other components.

Besides their switching and processing functions, preamps actually do perform some amplification: their phono sections take the weak signal from a turntable and make it stronger while also changing its frequency balance according to standards set by the Recording Industry Association of America.

Integrated Amplifiers

An integrated amplifier combines the functions of a preamplifier and a power amplifier. The control section switches and processes the signal, and the power section makes the signal strong enough to drive speakers. Think of an integrated amplifier as a receiver without a tuner section. It is a good choice both for those who don't listen to the radio and for those who want a separate high-quality tuner.

Tuners

A tuner is a source component that takes a signal from an antenna, tunes in a broadcast frequency from a radio station, and sends that signal to a preamplifier or an integrated amplifier. Some tuners use analog displays (a long scale with a moving pointer and numbers indicating the frequencies), but most today have digital displays (numbers indicating the frequency just of the station being received).

Since antennas receive all signals at the same time, the tuner must select the one you want to hear from the rest. If you have tried to listen to a weak or noisy station, you know how frustrating that can be. Some tuners have special circuits to improve the reception of weak signals, but an inexpensive tuner with a good antenna may produce a better signal than a fancy tuner with a poor antenna.

On an analog tuner, signal-strength displays can help you adjust the tuning for the best possible reception (digital-synthesis tuners "lock in" a selected frequency and cannot be adjusted further by the user). A row of lights (stronger signals light more lights), a moving pointer, or a light that goes on when the station is centered or is being received in stereo all indicate signal strength. Some displays are more helpful than others, but more displays are better than none at all.

For extra convenience, many tuners have a certain number of presets that store the frequencies of specific stations. You can store a classical station, say, in Preset 1, a rock station in Preset 2, and a news station in Preset 3, continuing until you run out of presets. Once the frequency is memorized, pushing the preset button tunes in the stored station automatically.

Compact Disc Players

CD players differ in price, features, circuit design, and sound. Sonic differences can be subtle, as CD players sound about as different from one another as preamplifiers do. Good circuit design, however, can mean the difference between corrected errors and rude noises. While ordinary CD players have much the same features—skip, scan, programming, even remote control—some are extraordinary, with features that set them apart from the rest. Price differences are rather huge—one player may cost $79.95 retail while others cost well over $1,000.

As with any other type of component, first determine which CD players are available in your price range. Then you can consider such special features as multidisc capability (a CD "changer"), the ability also to play video LaserDiscs, unique sound processing, or exceptional programming ability.

Better error-correction circuits make some players perform better than others. There are times when some of the data on the disc is not picked up by the player because of scratches or dirt. When the data loss is serious, cheap players can make noises, skip, or even stick in one place. Players with sophisticated error-correction circuits will play through these rough stretches without skipping a beat.

Cassette Decks

Although both eight-track cartridge players and digital audio tape (DAT) recorders also use tape in "cassettes," the term usually refers to the four-track analog Compact Cassette format developed by Philips. Cassette decks can record from other sources as well as play prerecorded tapes or ones you have recorded yourself. Because they often have many controls that must be used correctly to make a good recording, clear labeling and ease of operation are important. Confusing features are useless.

Most decks have one transport, holding one cassette at a time, but some—called "double" or "dubbing" decks—have two transports. And autoreverse decks play or record both sides of a tape without your having to turn it over. Autoreverse single- and double-transport decks may have a repeat feature for replaying tapes indefinitely.

Cassette decks use a variety of systems designed to reduce tape noise. Dolby B is the most common noise-reduction system, Dolby C less common but more effective, and the semiprofessional dbx system can be very effective.

Better tape decks tend to have more heads and more motors. With a two-head deck, you cannot record and play a tape at the same time. A three-head deck allows you to listen to the tape while you are recording it so you can compensate for any problems with the recording without having to start over again.

Decks with more than one motor, such as separate motors for the capstan that pulls the tape and for the hubs that turn the reels, can optimize each motor for its specific function, usually resulting in improved performance and reliability.

Open-Reel Decks

Much of the advice regarding cassette decks applies to open-reel machines as well. Open-reel tapes have several important advantages over cassettes: better sound, longer playing times, and easier editing. There are many types of open-reel decks, differing in the way they divide the tape

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into tracks and in their speed options (in inches per second, or ips). "Quarter-track" machines record two channels, left and right, on each side of the tape, much like cassettes; you turn the tape over to record or play the other side. "Half-track" recorders divide the tape into only two parts, for the left and right channels, and record and play in only one direction. "Four-track" machines also work in only one direction, but, like quarter-track machines, have two pairs of stereo tracks.

Faster speeds allow better sound quality but use more tape. Slower speeds reduce the recorded sound quality but increase recording time and conserve tape. To get both high-quality sound and long playing times, look for decks that handle large reels of tape (10-inch diameter).

Turntables

Also called phonographs or record players, turntables spin vinyl discs so that the record grooves make the stylus in the cartridge vibrate, generating a signal that replicates the original recording. Many turntables come with tonearms to hold a cartridge, and some even include the cartridge. A turntable doesn't have to be ultrasophisticated to spin a record and hold a cartridge. What is difficult is to spin a record at exactly the right speed and hold a cartridge at exactly the correct angle so the recorded information in the grooves is transmitted accurately, with no added noise or distortion.

If a turntable comes with a tonearm, the tonearm will be designed to accept one of a few different types of cartridges. The standard half-inch cartridge is most common, but they can be difficult to mount. "P-mount" cartridges are easy to install—they just plug into the end of the tonearm—but they have been criticized for insufficient rigidity (a wobbling cartridge adds spurious motion to the stylus).

Turntables differ in their degree of automation and in their drive systems. An automatic turntable will start play at the touch of a button and return the tonearm to its rest when the record finishes. A semiautomatic must be started manually, but it picks up the arm at the end and returns it to its rest. And a manual turntable makes you do all the work, but it uses fewer moving parts for increased reliability. Some turntables connect the motor to the platter with a belt (to lessen vibration), and others drive the spindle directly with the motor shaft (for precise speed control).

Cartridges

Cartridges hold the stylus ("needle") that is vibrated by the record's groove. The cartridge turns these vibrations into an electrical signal. Most cartridges are either standard half-inch types or P-mounts, and they must be used in compatible tonearms. Cartridges also differ in the way they turn motion into electrical signals. The moving-magnet design is most common, the moving-coil less common, and there are still other methods. The stylus itself may be—in increasing order of price and performance—spherical, elliptical, or a linear-contact type.

More important to the sound of your system, however, is the performance of the cartridge, which is described by specifications such as frequency response and channel separation. Figures for output voltage and tracking force tell you how compatible a cartridge is with various phono-preamplifier sections and tonearms. If your receiver or preamplifier doesn't have an input for a low-output cartridge, you can't use such a cartridge without buying a head amplifier, or pre-preamplifier, to match the cartridge to your phono input.

Tonearms

Tonearms are usually divided into two types: pivoted and linear (or radial) tracking. Despite some theoretical advantages of linear tracking, the performance of a tonearm depends more on how well the design is executed than on what type it is.

Some tonearms are "dynamically balanced," which means that the downward force they exert to hold the stylus in the groove is generated by some means other than gravity. "Statically balanced" arms depend on gravity to produce tracking force. Light weight and rigidity are desirable tonearm traits.

Because moderately priced and budget turntables usually include tonearms, separate arms are "high-end" components. You don't need to worry about separate tonearms unless you buy a high-end turntable. Matching a tonearm to a turntable and cartridge should not be undertaken lightly by beginners.

Speakers

Most speakers are wooden boxes with a couple of drivers in the front. A typical speaker has a woofer (a low-frequency driver) and a tweeter (a high-frequency driver). A three-way speaker adds a separate mid-range driver for the middle frequencies instead of assigning part of these to the woofer and part to the tweeter. Some speakers have drivers on every side, some are large flat panels with only one driver, and others are too esoteric to describe simply. Regardless of looks, their primary purpose is to transform an electrical audio signal into sound waves as accurately as possible.

How do you find the best speaker for you? First, rule out all models beyond your budget. If you know which receiver or amplifier you will use, check the suggested power range of the remaining speakers and cross out those that are not compatible. Check frequency-response specs to compare speakers' accuracy, looking especially for an extended bass response (down toward 20 Hz) and a small range of variation (± 3 dB or less) between the lower and upper extremes, which indicates a smooth and well-balanced response.

When you have reduced the number of speakers to a manageable few, it's time to start shopping. Even though speakers sound different in showrooms than in living rooms, you should listen carefully to a variety of speakers before you buy.

Bring a recording that you know very well. Since people hear the human voice so often, singing and speaking voices are good for testing speakers. If a speaker sounds unnatural on voices, it will be unnatural on everything. Experts recommend using acoustic music such as folk songs, piano trios, or violin music—but if you only listen to heavy-metal or electronic music, bring your fave-rave screamer to make sure the speakers make it sound the way you want it to sound.

Headphones

Some headphones are small and light so they can be used with pocket radios or cassette players and portable CD players. Others are large and heavy, providing more isolation from external noises, and are normally used at home. Outdoor headphones usually have ⅛-inch mini plugs, while home headphones use the larger ¼-inch phone plugs.

After deciding on the type of headphones you want, you can begin to compare price and performance to find the best-sounding phones possible within your budget. Head-

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The Energy 22 Pro Monitor has been hailed by critics as one of the major loudspeaker design breakthroughs of the last decade.

In fact, the Energy 22 may well rank as a standard against which other speakers should be judged. Audition either the Energy 22 Pro Monitors or the Reference Connoisseurs and we think you'll agree that they are not only the most exciting speakers you've ever heard, but "a stunning achievement" indeed!

"A STUNNING ACHIEVEMENT"

Top Retail Experts Personal Views About The Energy 22

New York, New York, The Listening Room, Ron Mintz – Owner. "As one of the First dealers in the U.S. to realize the quality of the E-22, we continue to be amazed by the imaging and spaciousness of this speaker of such compact size & price."

Hicksville, Long Island, New York, Designatron, John Thomas – Manager. "Never before have we experienced a speaker system which exhibits the level of realism that the Energy 22 provides. The excitement generated by Energy speakers is only exceeded by the pleasure of owning them. The Energy 22 sets a reference standard by which all other speakers must be judged."

Washington, D.C., Audio Associates, Mike Zazanis – Owner. "The ENERGY 22 is a very musical speaker at a very inexpensive price that easily could cost a lot more money."

Chicago, Illinois, Pro Musica, Ken Christianson, John Schwarz – Co-owners. "The Energy 22 Reference Connoisseur & Pro Monitors simply outperform the competition. Musically satisfying to the most demanding listeners."

Miami, Florida, Audio By Caruso, Don Caruso – Owner. "The REFERENCE CONNOISSEURS are among the most neutral, uncolored, speakers we have found!!! They provide very relaxing listening."

El Paso, Texas, Sound Room, Mark Pearson – Owner. "Energy 22 pro monitor is the most three dimensional speaker ever."

Phoenix, Mesa, Arizona, HI FI Sales, Dave Ross – G. Mgr. "ENERGY 22. One of the most accurate, best imaging speakers we have ever heard."

Los Angeles, California, Christopher Hanson Ltd., Christopher Hanson – Owner. "The Energy 22 is very musically involving - 'Absolutely Brilliant'."

San Diego, California, Stereo Sound Co., Bob Kokley – Owner. "Over the years we have heard many promises of new breakthroughs in speakers with disappointing results. The ENERGY 22 is one of the only products which performed beyond those promises. A job well done!"

Berkley, California, The Sounding Board, Jeff Smith, Jim Serena Co-Owners.
"The Energy 22 is an outstanding speaker. What's incredible is the value, compact size and its performace level."

THE DEALER'S #1 CHOICE

ENERGY 22

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phones—especially the more expensive ones—are usually easy to audition. Bring your favorite CD, LP, or cassette to your dealer and plug the headphones into the jack of the receiver or amplifier being used. Listen for solid lows, undistorted highs, realistic voices, clear peaks, and whatever other qualities you deem important.

Headphone specifications can tell you something about the performance of particular models. The frequency-response spec tells you the lowest and the highest sounds they can produce within a certain range. Lower lows, higher highs, and tighter tolerances are better, so 20-20,000 Hz ± 2 dB is better than 50-15,000 Hz ± 4 dB. Sensitivity specs tell you how much sound the phones will produce with a thousandth of a watt input. More sensitive headphones play louder with the same input.

Signal Processors

These are components such as equalizers, surround-sound processors, and PCM processors whose primary function is to make desired changes in the audio signal provided by the source component. Most allow the user to fine-tune the processing, adjusting sliders on an equalizer, for example, or setting the rear-channel volume in a surround-sound system.

Signal processors can solve problems and expand your system beyond its present capabilities. Equalizers compensate for frequency-response variations in source material, other components, and the listening room. Surround-sound units expand the sound stage—when used with extra amplification and speakers—to put you in the middle of the action. Other types of signal processors perform various functions to enhance the experience of listening to music, usually increasing your involvement with the system and the resulting sound.

Accessories

Cleaning and maintenance products are perhaps the most important accessories. Dirt can ruin recordings on disc and tape as well as damage delicate mechanical components. Tape recorders are especially vulnerable to dirt build-up and other problems of use and wear. Every system needs speaker cables, interconnects, and other wiring. The sound of most systems can be improved by better antennas, more precisely aligned cartridges, room acoustical treatments, etc. And most people need storage accessories for software or hardware.

Many systems require accessories such as signal switchers, turntable isolation devices, or pre-preamplifiers (head amps) for low-output cartridges. And you can use a spectrum analyzer to evaluate the effects of equalization, acoustic treatments, and other accessories.

Pocket Stereo

Battery-powered portable music systems can receive radio broadcasts or play cassettes or CD's, producing signals for headphones. Most can also be powered with an adaptor that plugs into an AC power outlet, and the headphone output jacks can be used to connect the machines to a home stereo system or powered speakers.

Signal processors perform various functions to enhance the experience of listening to music, usually increasing your involvement with your system and improving its sound.

Many pocket units have both a tuner section and a cassette section. To save space, the tuner section is sometimes built into a cassette-shaped pack that snaps into the player. Some portables can record cassettes as well as play them, taking signals from microphones, a built-in tuner section, or line-level inputs from other components.

Features that increase the performance—and price—of pocket tuner/tape players include autoreverse, anti-roll mechanisms, automatic frequency control (for more accurate tuning), Dolby B noise reduction, an EQ switch for metal and chrome tape, tone controls (including built-in equalizers), and so on. Only you can decide if all these features are worth the cost, but for superior sound I recommend Dolby NR and EQ switching at the very least.

Using a pocket unit a lot can take a lot of batteries. Rechargeable batteries are more expensive than regular alkalines, but they will save you money in the long run. Some machines cannot use rechargeable batteries, however, so check that when you're comparing models.

Blank Tape

Tape comes in different formats, but the tape inside the different shells is usually made of plastic strips with tiny particles of a metallic oxide or pure metal stuck on them. Because of the distortions inherent in the tape medium, a "bias" signal is used during recording, and equalization (EQ) is used during both recording and playback. Bias is a very high-frequency signal—usually between 150,000 to 180,000 Hz, much higher than human beings can hear—that is added to the signal being recorded. Tape EQ (or pre-emphasis) boosts low and high frequencies during recording and lowers them during playback.

Cassette tape comes in four different types. Type I is ferric oxide and uses normal bias and 120-microsecond (120-μs) EQ. Type II, whether chromium dioxide (CrO_2) or a chrome-equivalent formulation, is called high-bias because it requires more bias current than Type I; it uses 70-μs EQ. Type III, ferrichrome, also requires 70-μs EQ. Type IV is pure metal-particle tape, which can provide the best sound on cassette; it requires even more bias than Type II but uses the same EQ. □

ESM
ENERGY SYSTEM MONITOR
by
ENERGY

If you aspire to owning the famous Energy 22 Pro Monitor but can't quite afford it, hear the ESM-2. With size and performance approaching the 22, it is "both a fine loudspeaker and an excellent value."

Or perhaps the more compact ESM-3 will better suit you - it is "definitely an excellent value."

On a student budget? Try the new ESM-4 bookshelf monitor - very affordable!

Audition any of the ESM monitors. We think you'll agree with what *Stereo Review, High Fidelity* and *Audio Ideas* say below.

ALL ESM MODELS COME IN MIRROR-IMAGED PAIRS AND ARE AVAILABLE IN EITHER WALNUT GRAIN OR BLACK ASH.

"AMAZING AT THE PRICE"

"response varied only ± 1.5 dB from 180 to 18,000 Hz which is unquestionably one of the smoothest responses we have yet encountered from a speaker ... dispersion on a par with response flatness ... phase shift highly linear ... excellent peak power-handling ability ... only at 100 Hz did we manage to reach the speaker's (power handling) limits: with 990 watts (using single cycle bursts followed by 128 cycles of silence) ... smooth midrange and high frequency response, excellent dispersion and group delay, and exceptional short-term power-handling ability ... definitely an excellent value"
Stereo Review February 1986, on the ESM-3

"a fine loudspeaker and an excellent value ... very smooth and quite flat, falling within ± 3½ dB on-axis throughout the range above the 50 Hz band ... in the lab's 300 Hz pulse test the ESM-2 accepted without noticeable complaint the full output of the test amplifier ... (470 watts, peak into 8 ohms), for a calculated SPL (Sound Pressure Level) of 114 3/4 dB. Loud transients thus should be handled well ... bass sounds more extended than the response curves might suggest, with surprising heft at the very bottom ... Stereo imaging, too is very good ... ***Even if your budget can accommodate twice the ESM-2's price*** *- you owe it to yourself to audition Energy's latest design."*
High Fidelity January 1986, on the ESM-2

"exceptional overtone balance ... imaging was just about the best I've heard ... excellent dynamic range ... it sounds great ... no real compromises in its design ... anyone looking for a $1,500.00 to $2,000.00 system would be foolish not to carefully audition the Energy ESM-2 ... amazing at the price."
Audio Ideas, 1985 edition, on the ESM-2

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THE #1 CHOICE

ESM ENERGY SYSTEM MONITOR by ENERGY

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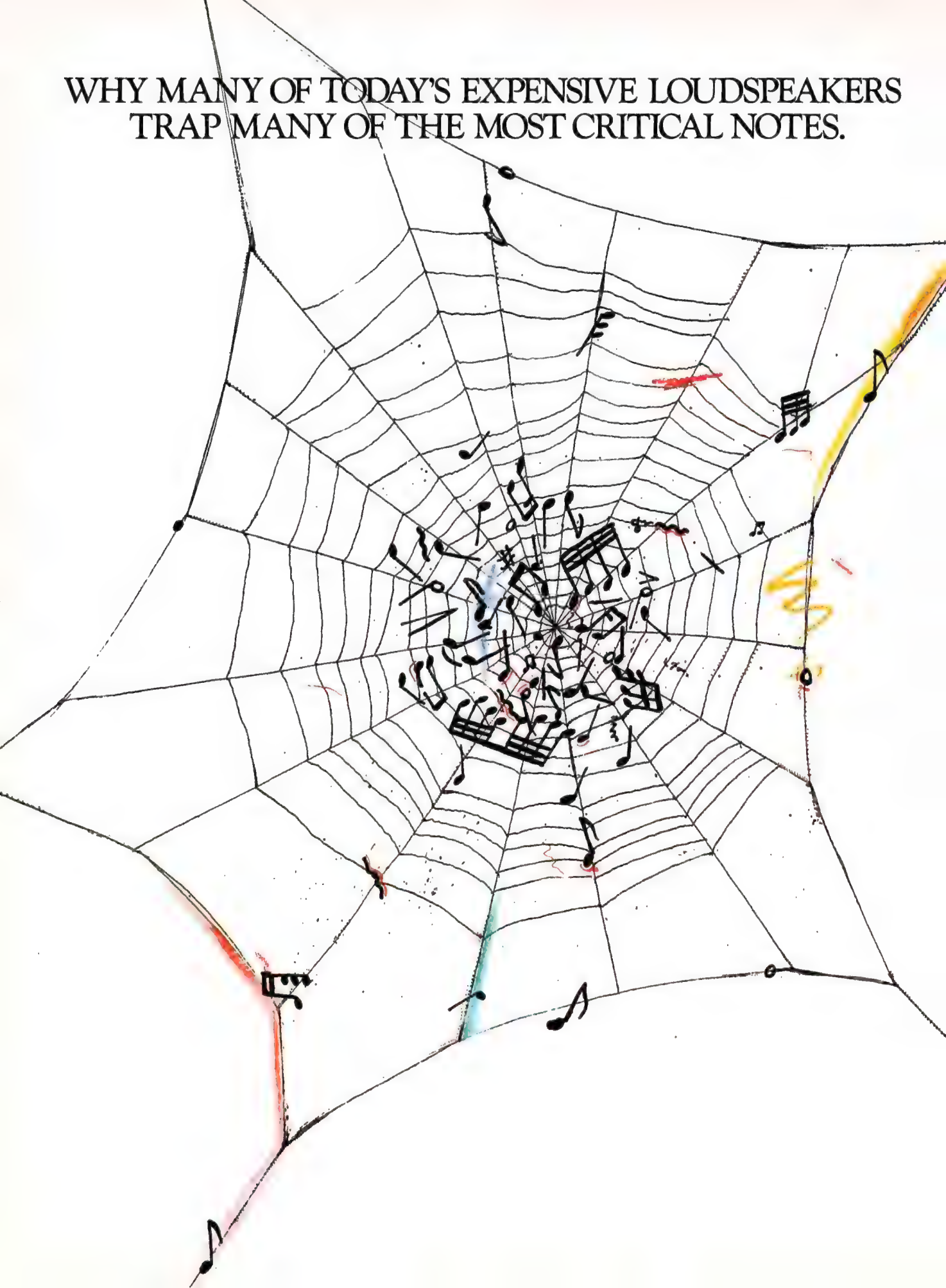
WHY MANY OF TODAY'S EXPENSIVE LOUDSPEAKERS TRAP MANY OF THE MOST CRITICAL NOTES.



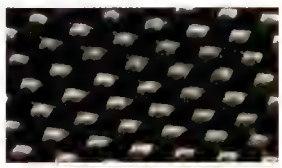
The music that goes into many of today's highly priced loudspeakers isn't always the same music that comes out. Many of the finer notes and nuances are often trapped or lost. Why? Because advanced recording techniques and digital processing demand a dynamic range of over 90 dB and an extended frequency response. Demands that are often beyond the limits of ordinary loudspeakers.

The truth is, most people can't hear what's missing from their music—like a broad frequency range—or what's been added—like coloring or distortion. But there are a few who can.

For that select group, listeners with well trained ears, Altec Lansing has engineered a new line of loudspeakers to recreate every subtlety of recorded music with a clear open sound and without coloring or distortion. Even the accuracy of CD recordings can be more fully appreciated on these Altec Lansing loudspeakers, prompting Stereo Review to remark "...the bass distortion was among the lowest we have measured. The speakers have...very good bass, and a warm, extended and unstrained character."

Polyimide/Titanium Mid-range

The secret to Altec Lansing's consummate performance? Remarkably sophisticated technology. Like woofers of a woven carbon fiber material (instead of paper or polypropylene) that is extremely rigid yet sufficiently light for maximum transient response and extraordinary low frequency definition. The result is a pure, clean, deep bass that beautifully complements the performance of our mid and high frequency polyimide/titanium domed drivers. Virtues like these compelled Stereo Review to also comment on Altec Lansing's "...high sensitivity and ability to absorb large power inputs...a speaker that can develop high sound pressure levels in any environment." Even the hand crafted walnut veneered cabinets utilize the latest computer aided design techniques, thick walls and extra bracing to eliminate resonance.



Carbon Fibers in Woofer Cone

So come hear Altec Lansing loudspeakers. And discover just how much of your music has been trapped by less than extraordinary loudspeakers. Call 1-800-ALTEC 88 for information and the Altec dealer nearest you. (In PA 717-296 HIFI.) In Canada call 416-496-0587 or write 265 Hood Road, Markham, Ontario L3R 4N3.

CIRCLE NO. 21 ON READER SERVICE CARD

ALTEC LANSING
LOUDSPEAKERS FOR
THE WELL-TRAINED EAR

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SETTING UP YOUR STEREO SYSTEM

Careful planning, before and after making your purchase, results in home-entertainment excellence.

by Ian G. Masters

MANY of us grew up with the sort of one-piece stereo system called—not always fondly—a "coffin." These "console" entertainment centers usually owed more to the art of furniture making than to good electronic design, but they had one major advantage over today's sophisticated audio systems: they came already assembled. Once the bruisers from the local appliance store had deposited the console in your living room, all you had to do was turn it on.

Things are a bit more complicated now. To take advantage of the capabilities of even a modest system, you will have to plan carefully and pay attention both to physical placement and to the interconnection of the components.

Plan Ahead

Even before you decide what equipment you want to buy, you should do a careful survey of the room it will go in, as its physical configuration can determine how well specific components will perform. For instance, the size of the room may affect your decision on the sort of loudspeaker to buy—a small room may dictate small speakers, and a large room with high ceilings may require large ones.

What you want the system to do should also influence your plans. A receiver, a cassette deck, and a pair of speakers may be sufficient for you now, but as you add functions in the future, space demands will become that much greater. As you can see, planning your setup *before* you head out to buy the equipment is very important.

When you are making your purchases, bear in mind what you will eventually have to do to make the system work. All systems require different types of wires, for instance, so before you leave the store make sure you have the right kinds and enough of each. Most components are supplied with the appropriate patch cords, but a few may not be. Rather than get all the boxes home and *then* find you have to run out and buy more wires before you can even begin, it's a good idea to make sure you have what you need from the start.

The one thing you will definitely have to buy is speaker wire. Determining the length you'll need is fairly straightforward as long as you know in advance roughly where your amplifier and speakers will be. The cables should be of equal length. As for the type of speaker wire you should buy, the main determining factor is its thickness. Most specialty speaker cables sold by audio or audio/video dealers are heavy enough to be appropriate for the longest of runs, but avoid the light, clear-plastic-coated wires often labeled "speaker wire" in department stores or discount outlets. When buying conventional wire, however, there is a wide choice of thicknesses. Ordinary 18- or 16-gauge lamp cord ("zip cord") is probably adequate for short runs (15 feet or less); otherwise, you should use at least 12-gauge cable.

The First Steps

Once you have brought home your system and everything else you need, there will be a strong temptation to rip all the boxes open immediately, pull out the components, and plug them together in some fashion just to see how they work. While this is a natural enough impulse, it's one that should be controlled.

Before you remove any component from its box, it's essential to look at the first few pages of the instruction book supplied with it for any specific directions about unpacking. When you have removed a component, put all the packing material back in the carton and *save it*. If you ever have to send equipment in for service, or if you move to a new house or apartment, you will need the cartons for safe shipping.

When all the pieces are unpacked, look at the back of each one and write down the serial number. You could do this at any time, of course, but it's usually easier before the equipment is on the shelf with a tangle of wires behind it. You will need the numbers to fill out the warranty cards. Note all the serial numbers on a separate sheet and keep it in a safe place.

After they have been unpacked, some components require a small amount of assembly or adjustment before they can be used. Most CD players, and some cassette decks, have transit screws to keep their moving parts from rattling around during shipment, and these must be loosened or removed. The instruction booklet will describe this process in detail; if it does say to remove anything, keep the part either with the booklet or in the empty carton for future repacking.

PAMELA SHERLAW

Survey the room the system will go in, since its configuration can affect how your system will sound.

One piece of equipment that often needs considerable assembly is the turntable. You may have to install the platter, the dust cover, the tonearm counterweight, or the headshell. While this is a good time to put everything together, the final stage—balancing and adjusting the tonearm and cartridge—should probably be done later, when the turntable is in its final position.

If you planned your system before purchasing it, you will have a fairly clear idea where everything will go. Now is the time to try your arrangement out. A rough positioning of the components will show you what works physically. You may find, for instance, that the receiver looks peculiar sitting on top of the cassette deck because it's an inch wider. It is much easier to rearrange things now, before they are connected together.

Also keep in mind things that will make your system easier to operate when it is set up. If you intend to make a lot of recordings, for instance, place the cassette deck where the level indicators will be easily visible. And if any of your components have infrared remote controls, make sure there is a clear line of sight to your usual listening position.

Power to the System

Before you begin to deal with any connections, you will have to decide how to get AC power to each of the components. With most systems, it is usually desirable to have everything operate from a single power switch, usually on the receiver or amplifier. Most of these have one or more AC outlets on the back panel that are operated by the unit's power switch (these are labeled "switched") and, usually, another outlet that simply passes power through to the connected component ("unswitched"). Other components sometimes have back-panel outlets too, either switched or unswitched.

Unless you have a very simple system, you will probably not be able to connect everything directly to the amplifier or receiver, but you may be able to string the components together "in series," with one component plugged into the next and so on. Alternatively, you can use one or more three-way AC adaptors plugged into the switched output of the receiver or amplifier to power as many components as necessary.

There are several things to consider with either arrangement, however. First, make sure that the total maximum power consumption of all the components does not exceed the controlling component's ability to handle them. Check all the instruction manuals and add up the power-consumption figures to make sure that they can be handled safely. If they can't, you will have to power at least some of your equipment separately. One solution may be to buy a "power strip," a box with five or six AC outlets and a master power switch.

Power Cords and Cables

Whatever arrangement you decide on, one thing you should avoid is a tangle of power cords behind the system. Not only do these take up space and have a tendency to tie themselves in knots, but there is a risk that they will cause an audible hum. The power cords attached to most hi-fi equipment come coiled up and held either by a plastic retainer or a twist tie of some sort. Undo just enough to reach the appropriate power outlet and secure the rest with the supplied retainer. It's also a good idea to identify each plug somehow in case it has to be disconnected and reconnected later.

In fact, *all* the cables that connect your system should be identified. Patch cords look pretty much alike, and once the whole system is wired up and the components are in their final positions, it's often hard to tell what leads where. You may want to change things in the future, and the labels will save you a lot of trouble. You might even consider labeling the cables *before* you assemble your system. Doing so will allow—or force—you to think things through logically before you start plugging things in, and when the time comes to connect your components, it will simply be a matter of inserting each plug into the appropriate jack.

To do this, you should place each component close to its final position, but without obscuring the connections on the rear panel. First attach the speaker cables to the amplifier or receiver's output terminals, being sure to observe any polarity markings and checking to make sure there are no "whiskers" of wire protruding that might brush up against the chassis or the other terminal and cause a short. Then attach the other ends of the speaker cables to the terminals on the speakers. Make sure that the left and right cables are connected to the left and right speakers, respectively, and that the wires are connected to the positive and negative terminals in a consistent fashion at each end of the signal chain.

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Three direct-line video inputs and three video outputs accommodate a pair of VCRs, a video disc player, and video monitor. If you're impressed, you're not alone. The judges of the CES Design & Engineering competition have already cited the AA-V405.

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Akai's CD-A305-B Compact Disc Player
boasts digital oversampling and 36-track programmability.

AKAI

Where audio and video are one.

Feed a mono signal into your speakers with the balance centered—they are in phase if the sound comes from a distinct midpoint.

Next, if you don't have an all-in-one receiver, the central audio components—the integrated amplifier, or the preamplifier and power amplifier, and the tuner—should be connected using the appropriate cords. Make sure the power switches are off while you make the connections. At this point, when you have the nucleus of your system assembled, you should perform a few simple tests to make sure it is connected properly.

System Checks

Recheck that all your connections are solid, and then connect the AC power, if you have not already done so. Before you turn the power on, check the receiver, the integrated amplifier, or the preamplifier to make sure that the volume control is set at a low position. Then check that the tape-monitor switches are off, the tone controls are in the "flat" position, the balance control is in the center, and any speaker-selection switches are activated correctly for your setup.

Turn on the power and check to see that all the appropriate lights are illuminated. If you have a receiver or tuner, select FM as a signal source, tune in a station, and turn the volume up *very* gradually. (If you don't have a tuner, use an LP or a tape.) Observe if there is sound being produced and if it is coming out of both speakers. If there is a problem, shut the system down immediately and recheck your connections and settings.

If you have been careful in the earlier stages, however, there should be no problem in getting sound out of the speakers at this point. Now it is time to make sure that your system is producing the *correct* sounds. First, turn the balance control on the receiver, integrated amplifier, or preamplifier all the way to the left and then to the right, and note whether sound is being produced only by the corresponding speaker in each case.

Another important check, of speaker phasing, should now be performed. Place the speakers a few feet apart and feed a mono signal to them with the balance control centered. If the speakers are in phase, the sound will appear to come from a very distinct point midway between them. To exaggerate the effect, put your head directly between the speakers—the sound should seem to originate right between your ears (rather like the effect you sometimes get with headphones). If you are in any doubt, reverse the polarity on *one* speaker only and repeat the test; the improvement, or deterioration, should be obvious immediately.

If you spend much of your time listening to FM, it's worth taking the time to make sure that you are receiving a high-quality signal. This process can be simple or difficult, but you will never really know how well you can pick up radio broadcasts until you actually hook up an antenna and see what the tuner does.

The simplest kind of antenna is the T-shaped wire "dipole" provided with most receivers and tuners. For many applications—particularly in cities, where you are close to the broadcasting antennas—a dipole is enough, but it has to be postioned carefully. Simply hook it to the 300-ohm antenna terminals on the rear panel of your receiver or tuner and move it about till it works best. It's not a good idea to secure it to the wall just yet, however, as you may find a better position after living with it for a while.

If the dipole turns out to be clearly inadequate, an indoor tunable antenna may be the answer. The next step up is a rooftop antenna, though this may be impossible if you live in an apartment building. If you do, and if the service is offered, you may have to subscribe to your cable-TV company's FM feed.

Tape Connections

With the basic setup in working order, it is time to start connecting your other components, such as a cassette deck, a CD player, and so on.

Before you actually make any of these connections, you may have to make some decisions, especially if you wish to attach more than one recording device. All but the most modest receivers and preamplifiers provide two or more tape-monitor circuits, and these are usually interconnected in some way, so this is the time to decide which recorder should be attached to which circuit. If you are planning to use your system occasionally for dubbing tapes, the choice may be critical, as many preamplifiers and receivers allow copying from Deck A to Deck B but not the other way around.

Setting up your tape equipment is normally straightforward. It can become more complicated, however, if you also have an equalizer or a surround-sound processor. These signal-processing devices are often designed to be inserted in the signal path between the preamplifier and the power amplifier. With separate components, this is

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When we built the first Advent® in 1968, we believed music should sound exactly the way the artist had intended. Nothing added. Nothing taken away.

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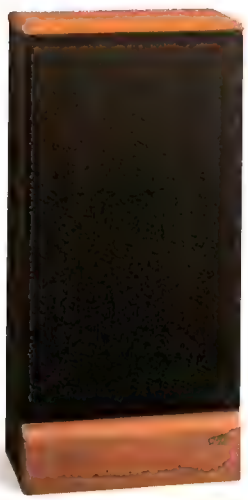
Since then, trends in speaker design have come and gone. But the Advent philosophy has remained the same. You'll know why when you listen to our current line of loudspeakers. They've been designed with the latest technology, yet preserve the clean, accurate sound Advent is known for.

All our speakers feature high efficiency long throw woofers, ferrofluid-filled tweeters and are compact disc ready. The Advent Maestro takes this performance even further with a mica-filled polypropylene dome midrange, 750 watts of power handling capability and a sound diffraction baffle. (Designed to enhance stereo imaging and broaden the musical soundstage.)



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Place your speakers in similar acoustic environments—moving them even slightly can make a big difference in how good they sound.

easy to accomplish, and some receivers and integrated amplifiers allow you to interrupt the signal between the preamp and power-amp sections. With others, however, a signal processor will have to be placed in one of the tape-monitor loops. For this reason, most of these components have their own built-in tape-monitor circuits to replace the ones they occupy.

Playback-Only Sources

The remaining components, such as compact disc players, should be much simpler to hook up because they are single-ended—in other words, they simply supply a signal to be reproduced. The only difficulty you are likely to face with this sort of component is if you have more of them than your preamplifier or receiver can accommodate. About the only way you can prevent this is by choosing equipment with the right number of inputs in the first place, though you may be able to use one of the tape-monitor inputs for a source component.

One very common playback-only source is, of course, the turntable, and you should tackle it next. The majority of turntables are supplied with a tonearm that is already mounted in the chassis, but in some of the more elaborate systems the tonearms are separate components. If possible, have your dealer mount the arm before you take the system home. But if you find you have to do it yourself, or if you *want* to, follow the instructions *exactly*—any shortcuts in positioning or securing the tonearm may seriously compromise its performance.

It's more probable that you will have to mount just the phono cartridge yourself—although if you can get the dealer to do it, you can avoid one of the more awkward and frustrating tasks in audio. Be very careful to check the positioning of the cartridge in the headshell. Also make sure that the electrical connections are both secure and correct—most tonearm and cartridge manufacturers color-code their connections, but some do not. You may have to do some careful reading in the instruction manuals to determine just what should be connected to what. If your cartridge and arm are modular, or "P-mount," types, things will be much simpler: just plug in the cartridge and forget about it.

After you have seen to the turntable/arm/cartridge combination, you should move the turntable to its approximate final location and make the electrical connections. Incidentally, a separate ground wire is included because the signal from a phono cartridge is extremely low and, therefore, is more inclined to pick up hum than other parts of the system. It's a matter of insurance and is often not needed.

The Last Steps

When all your components are hooked up, it's time to put them into their final locations. As you move each component into position, pay some attention to the cables joining them together. Make sure that the cables are as far away as possible from power cords, and keep runs of wire as short as possible. Keeping the tangle behind your system to a minimum makes sense both electrically and aesthetically.

Once the electronics are in place and functioning, it's time to place your speakers. The sound they produce is as much a product of their acoustic environment as of their technological sophistication, and great care should be taken so they can perform optimally. But in the real world, there are only so many places in a room that you can put speakers, particularly large ones.

Make sure your speakers are in acoustic environments that are as similar as possible. All surfaces—especially those close to a speaker—reflect its sound, and this can have a profound influence on the overall impression it makes. It is important that the two channels sound as much alike as possible, and this is extremely hard to achieve if the room acts on them differently. Avoid putting one speaker in a corner and the other along a wall or next to a doorway, for example, and be prepared to move them around a bit. Very slight adjustments of position can result in dramatic improvements in the sound—but make these judgments from the spot where you'll do most of your listening and not standing next to the speakers.

The final step is to sit down and read all the instruction manuals cover to cover. If there is a function that you were unaware of or that is unclear from the manual's description, try it out. Play with each component until you really have the "feel" of your system and can put it through all its paces.

An audio system can be complex, and it may be some time before you figure out how to make it do everything you want it to. But you can give yourself a head start: a well-planned and carefully assembled system should be an exciting source of entertainment right from the beginning. □

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C-90
M-90

REFERENCE AMPLIFIERS

C-90

SR

Reference Control Amplifier

We've given the C-90 a twin-mono amp construction which features separate power supplies and chassis layouts for the left and right channels. This elaborate construction shuts out mutual interference between channels, thus dramatically reducing intermodulation distortion. There's also an independent power supply that uses an exclusive transformer for video circuits, displays, relays, microcomputers and electronic switches.

We've also isolated the circuits in the C-90 from the external world because we know that a preamplifier is as susceptible to external disturbances and vibration as any other component. Preamps handle very delicate signals measured in microvolts and millivolts. When subjected to vibration, parts vibrate in sympathy, resulting in a type of distortion called "microphonics." Though subtle, this effect *is* discernable, especially with the tremendously wide dynamic range possible with digital programs. So we constructed feet from polycarbonate (for optimum shock absorbing response), anchored circuit boards to the chassis with rubber dampers, used flexible copper screws to cushion shocks, and employed a massive solid-aluminum volume control knob.

In order to retain higher purity and integrity, we shortened signal paths as much as possible through the use of relays, electronic switches and other means of electronic control wherever applicable. This has resulted in a drastic reduction of signal loss and deterioration (noise, distortion, crosstalk, etc.).

To boost the delicate signals from moving-coil cartridges, Pioneer's exclusive "hybrid" booster combines a quality transformer and an optimum-gain phono equalizer. With one-half the normal number of turns of coil, the transformer's thicker wire reduces DC resistance and stray wire capacitance for better high-frequency response. The reduced gain in the transformer is compensated for by an equalizer specially designed for low-noise performance. All this ensures that our "hybrid" booster provides a flat response from lows to highs and well-damped sound, making your "analog" records sound better than ever.

Pioneer's policy of using only quality parts is expressed throughout the amplifier, from circuit boards to wiring, from capacitors to semiconductors. Copper plating is used for the chassis and screws, for instance, to reduce subtle magnetic distortion.

In addition to high-quality sound, the C-90 also provides tremendous convenience: it connects, switches and controls six video components — two play-only units (LD players, TV tuners, etc.), three record/playback VCRs, and one processor unit. Besides, it provides two monitor outputs, and a 5-pin RF converter output that accepts an optional RF modulator (JA-RF5) for connecting a conventional TV. Using the sharpness, detail and noise reduction controls, you can even enhance the video as you watch or dub.

And for added convenience, the C-90 comes with a remote control that lets you control volume and input selection, as well as handle other Pioneer audio/video equipment with the "SR" mark. Adding a touch of class to the amplifier is an aluminum front panel finished with a lacquer-like shine.

M-90

NON SWITCHING AMP™

Reference Power Amplifier

The demand for a reliable and high-output power amplifier has never been greater now with the wide dynamic range made possible by the Compact Disc. The M-90 Reference Power Amplifier was designed especially for this digital age.

Speaker systems can have rated impedances of, say, 6 or 8 ohms, but when they play music with wide dynamic variations, the actual impedance can go much lower, especially at low frequencies. With dynamic digital sound, an amplifier must be equipped with a power supply that performs reliably even under the heaviest load. And that's why we've created the M-90: its power supply features two outsize transformers, large electrolytic capacitors (for a total capacitance of 48,000μF) and four bridged rectifier circuits with fast-recovery diodes. And in the power amplifier, 16 high-power transistors (8 per channel) are used in an elaborate "four-in-parallel" configuration.

What this means is that the M-90 is ready to deliver a **continuous average power output of 200 watts*per channel, min., at 8 ohms from 20Hz to 20,000Hz with no more than 0.003% total harmonic distortion.** What's even more amazing is its dynamic power: 300 watts at 8 ohms, 550 watts at 4 ohms and 800 watts at 2 ohms (with EIA dynamic test signal).

We also have made signal paths as short as possible to ensure signal integrity. The volume control for CD input is located on the front panel, of course, but actual level adjustment is performed by a potentiometer located behind the input terminals and linked by a long shaft.

In addition to the input for a control amp, the M-90 has an input, with volume control, for direct connection of a Compact Disc player to allow you to enjoy purer-than-ever digital sound. Another line-level direct input is also provided that permits you to add other digital equipment in the future. The M-90 also has an output to allow you to return the signals to the preamp for equalization or recording on a tape deck.

We used our exclusive Non-Switching Circuit Type II for the power output stage, thus ending switching distortion. And we have elaborated on this design to reduce distortion further across a wide power output range. Thermal distortion is also drastically reduced by stabilizing the idling current supplied to power transistors from the moment power is turned on. Moreover, we've reduced non-linear distortion of power transistors to 1/30 that of our class-B amps.

To ensure quality sound, we used quality parts, such as gold-plated in/output jacks, OFC (Oxygen-Free Copper) wiring, and 70μm-thick copper-plated circuit boards. To reduce magnetic distortion, the entire chassis is copper-plated, and so are screws used throughout.

Sophisticated craftsmanship is evident from the exterior: the power amp's aluminum panel front glows with a traditional lacquer-like luster. The front panel also contains large fluorescent power output indicators.

**Measured pursuant to the Federal Trade Commission's Trade Regulation Rule on Power Output Claims for Amplifiers.*

REFERENCE DIGITAL AMPLIFIER AND TUNER

A-91D

NON SWITCHING AMP™

Reference Digital Non-Switching Integrated Amplifier

Here's an amazing amplifier that's ready for digital reproduction: the A-91D. It even comes with a digital circuit for Compact Discs.

With the A-91D, program signals go through the shortest direct path from circuit to circuit, to minimize chances of noise pickup and to maintain musical purity. We've made this possible by having actual switching and control occur near circuits or input terminals. A "LINE DIRECT" switch lets you further trim the signal route; it runs the input selector direct to the power amp, bypassing all intervening circuits (except volume control) physically as well as electrically. It lets you enjoy unusually clear and clean reproduction from *any* program source.

Subtle vibrations can cause subtle sound degradation by microscopically moving parts and devices. So we've shut them out using a non-resonating frame chassis, insulators and a heat sink, all with a honeycomb construction. They also add to the rigidity of the entire chassis. Using separate circuit blocks contributes to clarity by keeping interference to a minimum.

Our new Non-Switching Circuit Type III features excellent low-impedance driving capability combined with low distortion. Our exclusive power-amp design offers more advantages. One, it puts an end to switching distortion to add clarity to the sound you hear. Two, it fully stabilizes idling current, so that distortion due to thermal fluctuation is reduced to zero. Three, distortion created by power transistors is reduced to 1/50th the original value. Four, load variations are suppressed, and dynamic response is improved when large currents are drawn at low impedances, thanks to separation of the voltage- and current-amplifying stages.

The A-91D is designed to drive low impedances of 6 or even 4 ohms with low distortion over a wide frequency range. Backing it up are two high-capacity power transformers. They are contained in finned die-cast iron cases, filled with a damping agent, which dissipate heat to prevent the increased resistance and impedance that high temperatures can cause. They are also solid and non-resonating, and magnetically shielded to prevent magnetic radiation from affecting delicate signals.

In the A-91D, we've extended the digital advantages by including independent digital conversion circuitry. There are two glitch-free D/A (Digital-to-Analog) converters (one for each channel), a digital filter which uses four times the normal sampling frequency (176.4kHz), and an analog low-pass filter built from quality discrete parts. Use the A-91D with a CD player with digital output such as the Pioneer PD-M90X, and you'll get digital sound in its purest form. There are six digital inputs and three digital outputs, of which two inputs and one output have optical interfaces to permit electrical isolation. An Optical Transfer Distortion Canceller is added to eliminate jitter for accurate optical transmission.

The A-91D delivers a **continuous average power output of 120 watts* per channel, min., at 8 ohms, from 20Hz to 20,000Hz with no more than 0.003% total harmonic distortion.**

**Measured pursuant to the Federal Trade Commission's Trade Regulation Rule on Power Output Claims for Amplifiers.*

F-91

SR

Reference Digital Synthesizer Tuner

We've pushed the level of FM sound quality to record highs with the addition of two Pioneer exclusives to the F-91.

The first is the ARTS (Active Real-Time Tracing System) included in the IF section of the tuner. With some tuners, especially expensive ones, you have the choice of using a narrow or wide IF bandwidth. The first lets you avoid interference, but you have to settle for an increase in distortion. The second provides lower distortion and better sound, but interference may get in the way. Pioneer ARTS — it's simply the best of both worlds: its IF filter *actively* follows the desired signal while rejecting interference. Now you can enjoy both the low distortion of a wide bandpass *and* the high selectivity of a narrow bandpass. Sensitivity is improved, too.

The second Pioneer feature is the Digital Direct Decoder Type III. It takes the output from the ARTS IF circuitry and converts it into digital form before directly turning it into stereo analog signals. Thanks to digital operation, our DDD Type III is less prone to signal degradation. Moreover, in the Type III, we've simplified the circuitry using a new PLL detector, which has reduced noise even further.

Improvements extend to other circuits of the tuner as well. The front end, for instance, features an ID MOS FET to improve reception. Indeed, the front end is as highly sensitive and selective as an elaborate 4-ganged tuning capacitor.

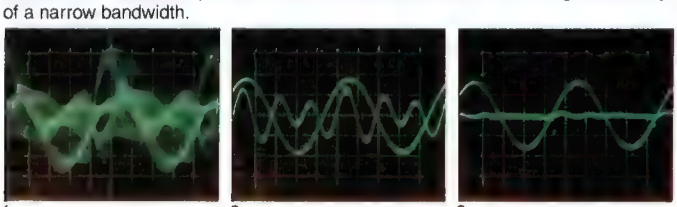
The F-91, like our amps and CD players, is designed based on our anti-vibration concept to damp harmful resonance and vibration for improved sound. We've turned circuits into modules and filled them with epoxy resin. And we've added honeycomb ribs to the chassis and used large insulators to shut out external vibration.

Then, of course, there are a wealth of features designed to improve convenience. You can preset up to 24 FM and AM stations in any combination. Up to three different stations can be programmed so that, when controlled by an optional timer, they are tuned in sequence — a convenient way to make unattended recording.

More features for convenience are an auto tuning mode, selectable muting level, recording level calibrator, and a fluorescent display.

Pioneer ARTS (Active Real-Time Tracing System)

A conventional wideband filter permits low-distortion reception but suffers when undesirable signals interfere (Photo 1). An alternate narrowband filter may cut interference, but can add distortion because of the limited bandwidth (Photo 2). Photo 3 shows the response of the F-91 with ARTS. As you can see, it delivers a low-distortion signal even when there's interference. The Pioneer ARTS simply combines the low-distortion performance of a wide bandwidth and the high selectivity of a narrow bandwidth.



1 2 3

PIONEER
DIGITAL OUTPUT

REFERENCE MULTI-PLAY COMPACT DISC PLAYER

PD-M90X

Six-disc multi-play convenience

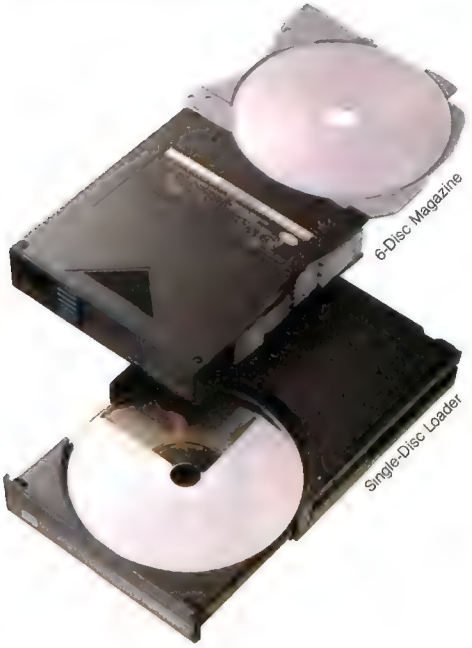
Class and convenience happily coexist in the PD-M90X, which combines classical elegance with computer-age features.

Our top-of-the-line multi-play CD player, the PD-M90X lets you enjoy beautiful, dynamic digital sound for hours and hours, uninterrupted. It accepts up to six CDs mounted inside a special magazine and plays the discs just the way you want them played. You can play each song on all six discs one by one, or jump to the song or disc you want instantly, using DISC NUMBER and TRACK NUMBER buttons provided both on the remote control and on the unit itself. For added convenience, you can also select up to 32 tracks from the six discs and program them for playback in any order! A single-disc loader is also standard for single-play convenience.

Remote control with "one-touch" program loading

The PD-M90X comes provided with a full-function "SR" remote control. It offers three extra conveniences: a numeric keypad, a multi-function LCD (Liquid Crystal Display) panel and the MPSS* (Magazine Program Selection System). The keypad gives you instant access to any track, a feature you'll also find useful when programming tracks. The LCD panel serves as a guide to programming, letting you preset tracks and the order away from the player while referring to labels of the discs.

The Magazine Program Selection System permits you to store up to 80 programmed "steps" (songs and pauses) from eight six-disc magazines. Using MPSS, you are saved from reprogramming tracks each time you mount a magazine: all you have to do is press the memory button for that specific magazine and the "transfer" button. The programmed songs are then automatically "loaded" from the remote into the player. Now loading programmed tracks has become as simple as touching a button.



SR

COMPACT disc DIGITAL AUDIO

4-way repeat, random play, fluorescent panel and other conveniences

The PD-M90X offers four-way repeat, including a single track, a single disc, all six discs and programmed tracks. The random play feature lets you leave track selection up to the player — touch the RANDOM PLAY button, and a built-in microcomputer randomly selects the songs for you from among the six loaded discs, without repeating tracks!** Or, press this key in the programmed play mode, and the computer randomly selects songs from among those programmed. Programmable pauses, 2-speed manual search, track search, and timer start function with options of normal and random play — these are other conveniences of our multi-play CD player.

A multi-function 7-digit fluorescent display is provided to show you the operating status of the player. It shows the elapsed time and remaining time of a track in play, as well as the remaining time of an entire disc. In addition, the display shows the accumulated total time each time you program a track. A graphic indicator shows which disc is being played at any moment.

Anti-vibration concept

When it comes to hi-tech features for better digital sound, the PD-M90X has plenty. To damp vibration and resonance, which can cause muddy sound, we use a copper-plated honeycomb chassis; a Disc Stabilizer to firmly clamp the rotating disc; and large aluminum-ringed insulators made of vibration-absorbing polycarbonate.

Oversampling digital filter

An oversampling digital filter using twice the normal sampling frequency — 88.2kHz — ensures low noise and minimal phase distortion for extra clarity and razor-sharp sound definition.

Digital level control

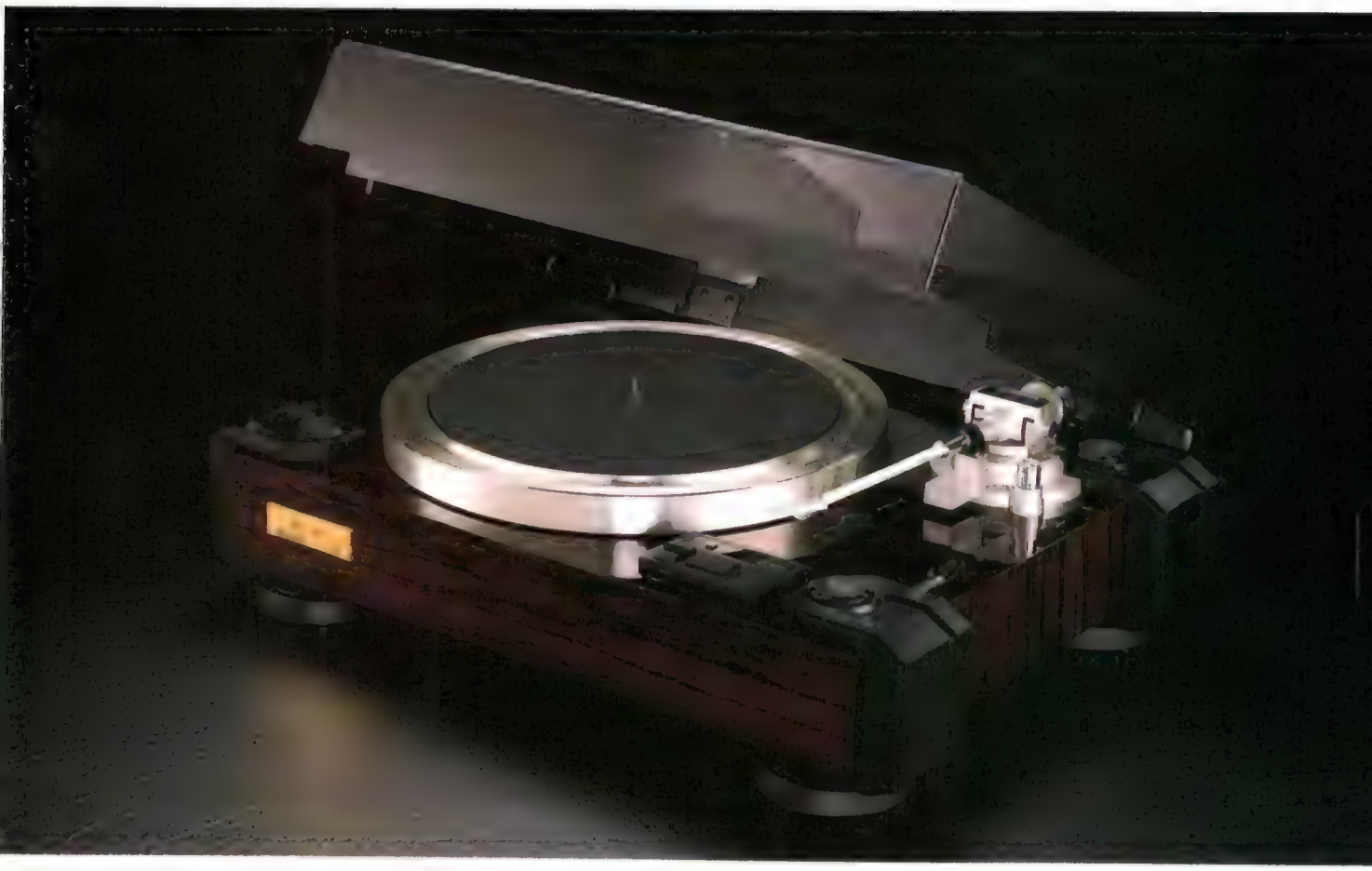
A digital level control lets you attenuate the playback level from the remote. Since it adjusts the signal while still in digital form, our digital volume control adds a minimum of noise and distortion.

Digital output

There is a digital output for connection to an outboard DAC (Digital-to-Analog Converter) unit or an amplifier featuring a built-in DAC like the Pioneer A-91D, so that you'll enjoy better yet, purer yet digital sound.

** MPSS is a trademark of Pioneer Electronic Corporation.*
***Some tracks may repeat when a disc contains more than 100 tracks.*

Note: The PD-M90X comes with both a 6-disc magazine and a single-disc loader. Additional magazines (JD-M100) are available as options.



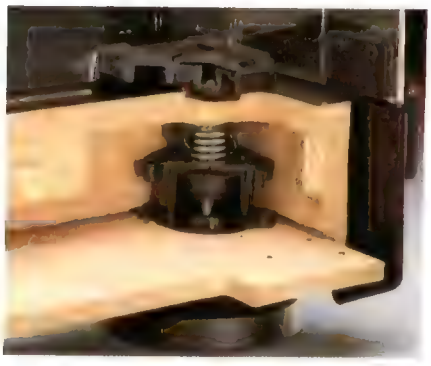
REFERENCE QUARTZ-PLL DIRECT-DRIVE TURNTABLE

PL-90

Think of it as the most advanced form in turntable technology. The PL-90 is designed to let you enjoy the maximum dynamic range and low distortion that today's best analog recordings can deliver.

To get the best performance out of today's sophisticated phono cartridges, we've fashioned its straight tone arm out of light yet rigid alumina-ceramics. Then we've fitted on it a Pioneer DRA (Dynamic Resonance Absorber), a combination of a viscous damper and weight, to eliminate resonance.

To ensure that your records are played with extremely low noise and wow and flutter, we use a coreless direct-drive DC-servo motor controlled



by a precise quartz-PLL servo system to provide cog-free and ripple-free smooth torque generation. The motor is fitted with a Stable Hanging Rotor to improve stability. The platter is large (14-3/16 inches across), heavy (7 lbs. 4 oz.) and has a high moment of inertia (655 kilograms per square centimeter), to smooth out rotation.

The important tone arm and motor are fully insulated from external influences through a Double Insulation System that shuts out vibration in both horizontal and vertical planes. The cabinet is made of high-density material to suppress resonance.

Ease of use is enhanced with the addition of automatic arm lift-up at the end of record play.

DIGITAL STANDARD SPEAKER SYSTEMS

DSS-E10/DSS-E6

Here's a pair of speaker systems specifically designed to serve as standards for accurate digital reproduction. A number of Pioneer exclusive designs has contributed to the making of our reference speaker systems.

One is the LDMC (Linear-Drive Magnetic Circuit) in the woofer. It creates a uniform magnetic field over a wide range within the voice coil gap. As a result, the voice coil is driven by the same uniform force, whether it is being pushed far outward to create very loud sounds, or is hardly moving to produce the faintest notes. The LDMC makes the sound you hear refreshingly transparent, powerful and exceptionally lifelike.

Our woofers also feature the EBD (Electronic Bass Drive). This design uses two voice coils wound on the bobbin, one on top of the other. Driven by two frequency-divided voice coils, the woofer produces double the amount of usable bass sound, extending the low-frequency response substantially.

Our DRS (Dynamic Response Suspension) improves the linearity of the damper and surround of the woofer, so that the driver responds accurately to a wide range of inputs from the loudest to softest sounds. This adds to a wider dynamic range.

The diaphragm of the woofer is made of Pioneer's PG or Polymer Graphite* that's light and firm. It combines low distortion, smooth response and low coloration. The midranges are made of hard boron to improve sensitivity and assure natural response. Tweeters are lightweight and responsive beryllium ribbons combining better transient response and low distortion.

**Polymer Graphite is a trademark of Pioneer Electronic Corporation.*

LaserDisc
PIONEER
LD-S1

REFERENCE LD PLAYER

LD-S1

The best in picture and sound

Here's the finest LD player available to consumers anywhere in the world. Designed and engineered specifically for the videophile with an ear for excellent sound. Take a look at some of the LD-S1's standout specifications: 420-line horizontal resolution, 48dB video signal-to-noise ratio, 105dB audio signal-to-noise ratio and 97dB audio dynamic range.

Full-floating drive system

Subjected to vibration, the pickup of an LD player can cause jitter, patchy colors and streaks in solid colors. And vibrating PC boards can muddy the sound. So we've isolated the motor disc drive from the rest of the chassis, to reduce the amount of vibration passed from the motor to other parts of the player. The result is a drastic reduction of jitter and streaks. Specifically: Our new Dynamic Pressure Bearing has lessened the load applied to the metal bearing. As the shaft starts to rotate, liquid silicone collects under the shaft, cushioning it and supporting it to prevent direct contact with the bearing. Transmission of motor vibration is lessened and friction reduced for smoother motor rotation.

Our magnetic disc clamper uses a powerful magnet to hold the disc. The moment a disc is in place, the clamper arm is removed from the clamper, thus ending the transmission of the motor vibration to other parts of the player.

Accu-Focus System

The tracking beams reflected from the disc are added by the quadrant photodetector inside the pickup assembly. But there is a slight phase difference between the outputs from leading and trailing beams. In the LD-S1, however, the outputs from the leading beam are delayed so that they can be added to those from the trailing beam in time. This reduces distortion and improves frequency response, especially the highs, of the RF output. Both audio and video benefit.

4X oversampling digital filter and twin D/A converters

We've incorporated a digital filter using a sampling frequency 4 times higher than that used in conventional filters. Working with an analog low-pass filter, it reduces phase delay as well as distortion. To eliminate phase difference between channels, we use two independent glitch-free D/A (Digital-to-Analog) converters. LDs with digital sound have never sounded better.

Digital memory

Eight-bit digital memory brings you versatile and clean special effects — the LD-S1 is the first player ever to be equipped with this innovative feature. You can freeze and store a picture in memory for viewing anytime. You can enjoy still and multi-speed play even from CLV (Extended-Play) discs, not to mention CAV (Standard-Play) discs. You'll also enjoy "strobe motion" and still with sound, two exciting new additions. Pictures are exceptionally stable and free of noise. Scanned pictures are also free of noise bars.

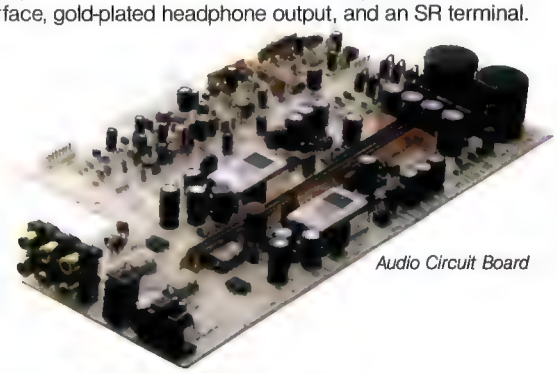
Elaborate power supply and quality parts

The LD-S1's power supply is elaborate, using two transformers, one for servo and digital circuits, and another for audio and video circuits. And to shut out interference between audio and video circuits, each has a separate power supply (independent coil windings on the transformer) and is laid out so that it is separated from the other. Quality parts are used for improved sound and picture, including a 1mm-thick OFC (Oxygen-Free Copper) ground bus plate, gold-plated terminals, copper-plated chassis, and OFC AC power cable.

Superb operating conveniences

The LD-S1 is equipped with a number of features to make operations superbly easy. Any part of a disc can be accessed in one-half the normal time of conventional players. A large fluorescent panel serves as your guide to operation. A new addition is the "Last Memory" feature: press the "LAST MEMORY" button before shutting off the power, and at the next viewing play resumes with a scene a few seconds back from where you left off. The front panel has all the controls you need for operation. And the remote control is ergonomically designed for ease of use.

Available functions include Still/Step, Dual-Speed Scan, Frame/Time Search, Chapter Search, 9-Step Multi-Speed Play, 4-Mode Repeat, Chapter-Skip Search and Chapter Program. Other features include on-screen display, picture tone control, two video outputs, I/O port for computer interface, gold-plated headphone output, and an SR terminal.



Audio Circuit Board

SR

LaserVision

digital SOUND

LaserDisc™

SPECIFICATIONS

C-90

AUDIO SECTION

Rated Output:	8V (20 — 20,000Hz, 10k ohms, T.H.D. 0.001%)
Input Sensitivity/Impedance	
PHONO (MM):	2.5mV/50k ohms
PHONO (MC):	0.25mV/40 ohms or 0.125mV/3 ohms
CD, TUNER, AUX, TAPE:	150mV/50k ohms
Output Level/Impedance	
PRE OUT:	1V/600 ohms
TAPE REC:	150mV/1k ohms
Total Harmonic Distortion:	0.002% (20 — 20,000Hz, 10k ohms, output 1V)
Intermodulation Distortion: (50Hz: 7,000Hz= 4:1, 8 ohms)	0.002% (output 1V)
Frequency Response	
PHONO (RIAA Equalization):	20 — 20,000Hz ±0.2dB
CD, TUNER, AUX, TAPE:	20 — 20,000Hz 0dB, −1dB
Tone Control	
BASS:	±9dB (100Hz)
TREBLE:	±9dB (10kHz)
Muting:	−20dB
Signal-to-Noise Ratio (IHF, A-network)	
PHONO:	96dB (MM), 86dB (MC)
CD, TUNER, AUX, TAPE:	109dB

VIDEO SECTION

Input Sensitivity/Impedance	
VDP, VCR, TV Tuner, Adaptor:	1Vp-p/75 ohms
Output Level/Impedance	
Monitor, Adaptor, REC Monitor:	1Vp-p/75 ohms
Frequency Range:	10Hz — 10MHz 0dB, −3dB

MISCELLANEOUS

Power Requirements:	120V 60Hz
Power Consumption:	40W
Dimensions (W × H × D): (without package)	18 × 4-15/16 × 15-15/16 inches 457 × 125 × 405 mm
Weight (without package):	21 lbs. 6 oz./9.7kg

M-90

POWER AMPLIFIER SECTION

Continuous average power output of 200 watts* per channel, min., at 8 ohms, from 20Hz to 20,000Hz with no more than 0.003% total harmonic distortion.

Total Harmonic Distortion:	0.003% (20 — 20,000Hz, 8 ohms, continuous rated power output)
Intermodulation Distortion: (50Hz: 7,000Hz= 4:1, 8 ohms)	0.002% (continuous rated power output)
Input Sensitivity/Impedance	
CONTROL AMP:	1V/50k ohms (fixed)
CD DIRECT, LINE DIRECT:	1V/50k ohms (variable)
Output	
SPEAKERS:	A, B, A+B, OFF
HEADPHONES:	Low impedance
Frequency Response (CD):	20 — 20,000Hz 0dB, −0.1dB
Signal-to-Noise Ratio:	125dB (IHF, A-network)

MISCELLANEOUS

Power Requirements:	120V 60Hz
Power Consumption:	430W (UL)
Dimensions (W × H × D): (without package)	18 × 6-1/16 × 16-15/16 inches 457 × 154 × 430 mm
Weight (without package):	49 lbs. 13 oz./22.6kg

*Measured pursuant to the Federal Trade Commission's Trade Regulation Rule on Power Output Claims for Amplifiers.

A-91D

AMPLIFIER SECTION

Continuous average power output of 120 watts* per channel, min., at 8 ohms from 20Hz to 20,000Hz with no more than 0.003% total harmonic distortion

Total Harmonic Distortion:	0.003% (20 — 20,000Hz, 8 ohms, continuous rated power output)
Input Sensitivity/Impedance	
PHONO (MM):	2.5mV/50k ohms
PHONO (MC):	0.25mV/40 ohms
CD, TUNER, AUX, TAPE:	150mV/50k ohms
PHONO Overload Level (1kHz)	
MM/MC:	200mV/20mV (T.H.D. 0.008%)
Output Level/Impedance	
TAPE REC:	150mV/0.8k ohms
SPEAKERS:	A, B, A+B, OFF
HEADPHONES:	Low impedance
Frequency Response	
PHONO (RIAA Equalization)	
MM:	20 — 20,000Hz ±0.2dB
MC:	20 — 20,000Hz ±0.3dB
CD TUNER, AUX, TAPE:	1 — 150,000Hz 0dB, −3dB
Tone Control	
BASS:	±8dB (100Hz)
TREBLE:	±8dB (10kHz)
Filter (Subsonic):	17Hz (−12dB/oct.)
Loudness Contour: (Volume at −40dB position)	+5dB (100Hz), +3dB (10kHz)
Signal-to-Noise Ratio (IHF, short-circuited A-network)	
PHONO (MM/MC):	95dB/83dB
CD, TUNER, AUX, TAPE:	109dB

MISCELLANEOUS

Power Requirements:	120V 60Hz
Power Consumption:	670W (UL)
Dimensions (W × H × D): (without package)	18 × 6-13/16 × 18-11/16 inches 457 × 173 × 475 mm
Weight (without package):	65 lbs. 15 oz./29.9kg

F-91

FM TUNER SECTION

Usable Sensitivity (mono):	9.8dBf (0.85μV, 75 ohms)
50dB Quieting Sensitivity	
Mono:	12.8dBf (1.2μV, 75 ohms)
Stereo:	34.8dBf (15μV, 75 ohms)
Signal-to-Noise Ratio	
Mono/Stereo (IHF):	95dB/87dB
Distortion (at 80dBf)	
100Hz (mono/stereo):	0.015%/0.02%
1kHz (mono/stereo):	0.009%/0.02%
6kHz (mono/stereo):	0.02%/0.07%
Frequency Response:	20 — 15,000Hz +0.2dB, −0.8dB
Capture Ratio:	0.8dB
Alternate Channel Selectivity:	85dB (400kHz)
Spurious Response Ratio:	80dB
Image Response Ratio:	70dB
IF Response Ratio:	100dB
AM Suppression Ratio:	70dB
Subcarrier Product Ratio:	60dB
Muting Threshold:	25.2dBf (5μV, 75 ohms)
Stereo Separation	
1kHz:	65dB
20 — 10,000Hz:	55dB
Antenna Input:	75 ohms unbalanced

AM TUNER SECTION

Sensitivity	
IHF, Loop Antenna:	150μV/m
Selectivity:	18dB
Signal-to-Noise Ratio:	50dB
Image Response Ratio:	40dB
IF Response Ratio:	60dB
Antenna:	Loop antenna

AUDIO SECTION

Output (Level/Impedance)	
FM (100% Mod, Fixed).	650mV/900 ohms
AM (30% Mod, Fixed):	150mV/900 ohms

MISCELLANEOUS

Power Requirements:	120V 60Hz
Power Consumption:	25W
Dimensions (W × H × D): (without package)	18 × 3-5/16 × 12-7/16 inches 457 × 84 × 316 mm
Weight (without package).	11 lbs. 7 oz./5.2kg

PD-M90X

System:	Compact disc digital audio system
Frequency Response:	4 — 20,000Hz ±0.5dB
Signal-to-Noise Ratio (EIAJ):	100dB
Dynamic Range (EIAJ):	96dB
Channel Separation (EIAJ):	93dB
Wow and Flutter (EIAJ):	Unmeasurable (±0.001%, weighted peak)
Distortion(EIAJ):	0.0035%
Output Voltage (EIAJ):	2V ±0.5V
Power Requirements:	120V 60Hz
Power Consumption:	23W
Dimensions (W × H × D):	18 × 4-1/8 × 12-3/8 inches
(without package)	457 × 104 × 315 mm
Weight (without package):	15 lbs./6.8kg

PL-90

MOTOR AND TURNTABLE	
Drive System:	Direct Drive
Motor:	Coreless, Quartz-PLL DC-servo motor with Stable Hanging Rotor™
Turntable Platter:	14-3/16 inches (36cm)
Inertial Mass:	655kg/cm²
Speed:	33-1/3 and 45 rpm
Wow and Flutter (WRMS):	0.018% (0.008%*)
Signal-to-Noise Ratio:	85dB (DIN B)
TONE ARM	
Type:	Statically balanced, alumina-ceramics straight tone arm with DRA
Effective Arm Length:	11-1/8 inches (282mm)
Overhang:	9/16 inch (13.5mm)
Usable Cartridge Weight:	2.4g — 12g
MISCELLANEOUS	
Power Requirements:	120V 60Hz
Power Consumption:	14W
Dimensions (W × H × D):	23-7/16 × 8-7/16 × 17-1/16 inches
(without package)	596 × 215 × 434 mm
Weight (without package):	38 lbs. 2 oz./17.3kg

*Measured directly from FG output.

DSS-E10

Enclosure:	Bass-reflex bookshelf type
Unit Layout:	Symmetrical
Speakers	
Woofer:	12-inch (30cm) PG™ cone type
Midrange:	4-3/4-inch (12cm) boron cone type
Tweeter:	Beryllium ribbon type
Impedance:	6 ohms
Frequency Range:	30 — 50,000Hz
Sensitivity:	91dB/W (1m)
Maximum Music Power:	240W
Rated Power:	80W
Crossover Frequencies:	650Hz (Low/Mid) 4,000Hz (Mid/High)
Dimensions (W × H × D):	15-3/8 × 26-3/4 × 13-7/8 inches
(without package)	390 × 680 × 353 mm
Weight (without package):	57 lbs. 5 oz./26kg

DSS-E6

Enclosure:	Bass-reflex bookshelf type
Unit Layout:	Symmetrical
Speakers	
Woofer:	8-inch (20cm) PG™ cone type
Midrange:	2-1/2-inch (6.6cm) boron cone type
Tweeter:	Beryllium ribbon type
Impedance:	6 ohms
Frequency Range:	40 — 50,000Hz
Sensitivity:	90dB/W (1m)
Maximum Music Power:	120W
Rated Power:	40W
Crossover Frequencies:	1,000Hz (Low/Mid) 5,000Hz (Mid/High)
Dimensions (W × H × D):	10-5/8 × 18-1/2 × 9-9/16 inches
(without package)	270 × 470 × 243 mm
Weight (without package).	23 lbs. 2 oz./10.5kg

LD-S1

TYPE:	LaserVision videodisc system
OUTPUTS	
VHF Output (NTSC)	
Channel:	Channel 3 or 4 (switchable)
Terminal:	F-type jack (75 ohms, unbalanced)
Video Output	
Output Level:	1Vp-p (75 ohms, sync. negative)
Output Terminals:	RCA jack (75 ohms, unbalanced)
Audio Output	
Channels:	Discrete 2 channels (1/L, 2/R, 1/L+2/R, switchable)
Output Level:	Digital sound: 200mV rms (1kHz, −20dB) Analog sound: 200mV rms (1kHz, 40%)
Output Terminals:	RCA jacks
DIGITAL AUDIO CHARACTERISTICS	
Frequency Response:	4 — 20,000Hz (+0.5dB)
Signal-to-Noise Ratio:	105dB
Dynamic Range:	97dB
Channel Separation:	100dB
Total Harmonic Distortion:	0.0035%
ANALOG AUDIO CHARACTERISTICS	
Frequency Response:	20 — 20,000Hz
Signal-to-Noise Ratio:	70dB (CX on)
Dynamic Range:	70dB (CX on)
MISCELLANEOUS	
Power Requirements:	120V 60Hz
Power Consumption:	55W
Dimensions (W × H × D)	18 × 5-3/8 × 18-7/16 inches
(without package)	457 × 136 × 468 mm
Weight (without package):	36 lbs. 15 oz./16.8kg

LaserDisc™

LaserDisc is a trademark of Pioneer Electronic Corporation.

LaserVision

The LaserVision mark certifies compatibility with other laser optical video products bearing the mark.

SR

This mark indicates the compatibility for the Pioneer system remote control.

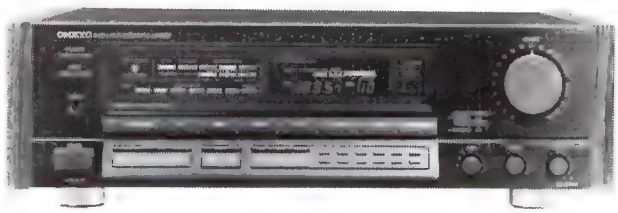
Note: Specifications and design subject to modification without notice

CIRCLE NO. 70 ON READER SERVICE CARD

PIONEER ELECTRONICS (USA) INC.
P.O. Box 1540, Long Beach, California 90801

PIONEER ELECTRONICS OF CANADA, INC.
TORONTO HEAD OFFICE
505 Cochrane Drive, Markham, Ontario L3R 6B8 Phone: (416) 479-4411
VANCOUVER OFFICE
13911 Bridgeport Road, Richmond, British Columbia V6V 1J6 Phone: (604) 278-1014
MONTREAL OFFICE
6412 Trans Canada Highway, St. Laurent, Quebec H4T 1X4 Phone: (514) 735-2651

RECEIVERS



ACOUSTIC RESEARCH

AR X-10 AM/FM Stereo Receiver
Receiver with infrared remote to control power, volume, tuning, input selection, and AR CD player functions. Features audio and video dubbing; close-tolerance metal-film resistors and film capacitors for RIAA; concealed bass, midrange, treble, balance, tone-defeat, loudness, filter, tape, FM/AM, memory, and speaker-switching controls; 8 AM/8 FM station presets; gold-plated phono in-

puts. Inputs for MM phono; MC phono; tape; AUX; CD player; video sound source; VCR 1; VCR 2. Amp section: 100 contiuous average W/ch from 20-20,000 –Hz into 8 ohms with less than 0.03% THD, 130 W into 4 ohms; dynamic headroom 2 dB; 200-ms dynamic power 150 W; 40-ampere current capability. FM section 50-dB quieting sens stereo 25 μV (33.2 dBf); FM S/N (at 65 dBf) 75 dB stereo, 80 dB mono; THD stereo 0.3%; capture ratio 1.0 dB; AM rejection 60 dB; alt-ch sel 75 dB. 17" w x 4.33" h x 14.5" d $800

AR X-06 AM/FM-Stereo Receiver
Receiver with infrared remote to control power, volume, tuning, input selection, and AR CD player functions. Features audio and video dubbing; close-tolerance metal-film resistors and film capacitors for RIAA; concealed bass, midrange, treble, balance, loudness, mono; tape, VCR, tuning, and speaker-switching controls; 8 AM/8 FM station presets; gold-plated phono inputs. Inputs for MM phono; MC phono; tape; AUX; CD player; video sound source; VCR 1; VCR 2. Amp section: 60 contiuous average W/ch from 20-20,000 Hz into 8 ohms with less than 0.03% THD, 80 W into 4 ohms; dynamic headroom 2 dB. 17" w x 3.25" h x 15.5" d $600

AR X-04 AM/FM-Stereo Receiver
AM/FM receiver with concealed ergonomic controls. Features 8 AM/8 FM station presets; mute button; headphone jack; inputs for MM phono; tape; AUX; CD player; video sound source. Amp section: 40 contiuous average W/ch from 20-20,000 Hz into 8 ohms with less than 0.03% THD, 50 W into 4 ohms; dynamic headroom 1.4 dB; 200-ms dynamic power 60 W. FM section 50-dB quieting sens stereo 40 μV (37.2 dBf); FM S/N (at 65 dBf) 74 DB stereo, 78 dB mono; THD stereo 0.3%. 17" w x 3.25" h x 13" d $400

a/d/s/

R4 Remote-Controllable 70-W/ch Receiver
Alphanumeric display on front panel indicating input source or received radio station. Digital-synthesized tuner with 30 memory presets for AM or FM stations; optional wireless remote control (which also controls other a/d/s/ components); digital volume and tone controls; RS-232 port allows control through personal computer; capable of multi-room remote control. Amp section: 70 W/ch into 8/4 ohms; dynamic headroom 2 dB. Tuner section: IHF sens 26 dBf stereo; signal strength for 50-dB quieting 35 dBf stereo. 17.5" w x 2.8" h x 14.8" d; 23 lb $1,100

RC1 Unified Remote Control
Wireless remote controls R4 and other a/d/s/ components $100

AKAI

AA-V405-B 100-W/ch A/V Receiver
With wireless remote control; surround-sound decoding; 7-band EQ; 16 AM/FM presets; video and RF inputs/outputs; comprehensive LCD. Inputs for MM phono; tape; aux; CD player; video sound source; VCR 1; VCR 2; VDP; RF. Amp section: 100 W/ch into 8 ohms. FM section: 50-dB quieting sens stereo 37.2 dBf; max S/N with 65 dBf A-wtd stereo 65 dB; capture ratio 1.5 dB. 17" w x 4" h x 13.5" d; 16.2 lb $589

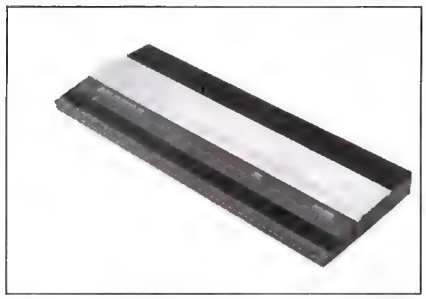
AA-V305-B 80-W/ch A/V Receiver
Wireless remote control; surround-sound decoding; 5-band EQ; 16 AM/FM presets; video and RF inputs/outputs; comprehensive LCD. Inputs for MM phono; tape; aux; CD player; video sound source; VCR 1; VCR 2; VDP; RF. Amp section: 80 W/ch into 8 ohms. FM section: 50-dB quieting sens stereo 37.2 dBf; max S/N with 65 dBf A-wtd stereo 65 dB; capture ratio 1.5 dB. 17" w x 4" h x 13.5" d $499

AA-V205-B 60-W/ch A/V Receiver
Wireless remote control; surround-sound decoding; 5-band EQ; 16 AM/FM presets; video and RF inputs/outputs; comprehensive LCD. Inputs for MM phono; tape; aux; CD player; video sound source; VCR 1; VCR 2; VDP; RF. Amp section: 60 W/ch into 8 ohms. FM section: 50-dB quieting sens stereo 37.2 dBf; capture ratio 1.5 dB. 17.3" w x 4" h x 13.5" d; 16.2 lb $399

BANG & OLUFSEN

Beomaster 5500 50-W/ch AM/FM Receiver
Includes Master Control Panel remote control and handheld infrared remote; presets for 20 AM and FM stations; Auto Power Handling Control compression; double-acting auto gain control in FM; volume, bass, treble, and balance controlled from knob on MCP remote; works with other Beosystem 5500 components for multi-room remote control; direct selection of any FM or AM station by frequency; station search; silver and black finish. Power output 50 W/ch into 8 ohms; dynamic headroom 1.5 dB; 50-dB quieting sens 40 dBf; capture ratio 1.7 dB. 16.5" w x 3" h x 12.75" d; 19.2 lb $1,950

Beomaster 3300 25-W/ch AM/FM Receiver
Works with other Beosystem 3300 components for multi-room remote control; sensi-touch capacitance controls; volume controlled from wireless remote; 4 FM, 1 AM presets; auto power with source selection; bass (max +9, –14 dB at 40 Hz), treble (max +9, –14 dB at 12,500 Hz), balance controls; loudness switch; programmable volume level; auto compression to prevent overload; mounts on wall with accessory brackets;



headphone jack; drives 2 pairs of speakers. 25 W/ch into 8 ohms; 50-dB quieting sens 43 dBf stereo. 24.5" w x 2.75" h x 10" d; 15.4 lb $799

CARVER

200-W/ch AM/FM Receiver 2000
With Magnetic Field Amp, Sonic Holography, and special FM NR. Features AM stereo; MC cartridge preamp; remote control. Inputs for MM phono, MC phono, tape, AUX, extra AUX, CD player, video sound source. Amp section: 200 W/ch into 8 ohms; dynamic headroom 0.2 dB. FM section: alternate-ch sel 58 dB; adjacent-ch sel 40 dB; 50-dB quieting sens stereo 5 μV; sep 40 dB at 1,000 Hz; capture ratio 1.0 dB. AM section: sens 250 μV $1,595

150-W/ch AVR100 Audio/Video Receiver
Magnetic Field Amplifier; 6 AM/6 FM presets; Asymmetrical Charge-Coupled FM Detector; Sonic Holography; bass control boosts or cuts 100 Hz max 8 dB; treble boosts or cuts 10,000 Hz max 8 dB; 4 video inputs, 3 video outputs, with switching and dubbing; antenna/cable switching; surround-sound processor with 50 W; 20-function remote. 150 W/ch. Tuner section: FM sens IHF 2.0 μV; FM 50-dB quieting sens 4.5 μV mono or stereo; capture ratio 1.5 dB; AM distortion at 2 mV 0.6% $1,199

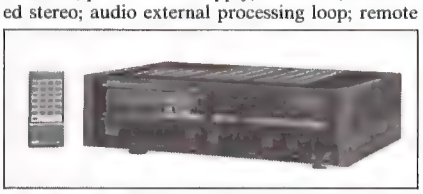
150-W/ch AM/FM Receiver 150
Designed for noise-free stereo FM and adequate power for CD's; PLL fully digital-synthesized AM/FM stereo tuner section; Magnetic Field Amp; Asymmetrical Charge-Coupled FM Detector; phono input; video/digital audio input; aux input; 2 tape inputs; 6 station presets; mono switch; bass, mid, treble controls; balance control; switches for tone defeat, speaker selection, tape monitoring, tape dubbing, FM muting, AM noise filter, loudness contour. 150 W/ch into 8 ohms. FM section (stereo, 75 ohms, with Charge-Coupled Detector engaged): usable sens 16.3 dBf (1.78 μV); 50-dB quieting sens 23.5 dBf (4.0 μV) $799

90-W/ch Receiver 900
With Magnetic Field Amp and special FM NR. Inputs for MM phono, tape, AUX, extra AUX, CD player, video sound source. Amp section: 90 W/ch into 8 ohms; dynamic headroom 0.2 dB. FM section: alternate-ch sel 58 dB; adjacent-ch sel 40

dB; 50-dB quieting sens stereo 5 μV; sep 40 dB at 1,000 Hz; capture ratio 1.0 dB. AM section: sens 25 μV $635

DENON

DRA-95VR Receiver
Features remote control; 85 W/ch; nonnegative feedback; pure current supply; simulcast; simulated stereo; audio external processing loop; remote



video input switching; 16-station random preset tuning; variable loudness; MC input; 2 A/V in and 1 A/V out plus monitor out. Side panels standard..... $650

DRA-75VR Receiver
Features remote control; 65 W/ch; nonswitiching Class A amp; simulcast; audio external processing loop; 16-station random preset tuning; variable loudness; MC input; 2 A/V in and 1 A/V out plus monitor out; electronic input switching $500

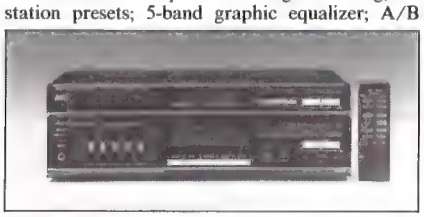
DRA-55V Receiver
Features 55 W/ch; nonswitching Class A amp; 16-station random preset tuning; variable loudness; 2 A/V inputs and 1 monitor output; electronic input switching; last-channel memory; auto seek..... $400

DRA-35V Receiver
Features 40 W/ch; 16-station preset tuning; auto seek; variable loudness control; last-channel memory; nonswitching Class A amp; A/V in/out; electronic input switching..... $320

DRA-25 AM/FM Receiver
Stereo receiver features straight amplification design; CD direct switch; variable loudness EQ; liquid heat-cooled sink; high-linearity phono stage; 16-station random preset memory; microprocessor assisted tuning system; FL display; auto-scan; up/down manual tuning; last-channel-tuned memory. 30 W/ch min rms into 8 ohms from 20-20,000 Hz with no more than 0.05% THD; FM 50 dB quieting sens 23 μV (stereo); capture ratio 1.5 dB; AM suppression 50 dB $280

FISHER

RS-620 AM/FM Receiver
100 W/ch receiver with infrared wireless remote control. Features quartz-PLL digital tuning; 24 station presets; 5-band graphic equalizer; A/B



speaker switching; headphone jack; inputs for phono, CD, video/aux, tape 1, and tape 2. 100 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.5% THD $400

RS-610 AM/FM Receiver
50 W/ch receiver with infrared wireless remote control. Features quartz-PLL digital tuning; 24 station presets; 5-band graphic equalizer; A/B speaker switching; headphone jack; inputs for phono, CD, video/aux, tape 1, and tape 2. 100 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.5% THD $300

HARMAN KARDON

HK 795i 70-W/ch AM/FM Receiver
AM/FM-stereo receiver with digital synthesized quartz-locked tuning and high current power amplifier section with reactive load capability. Features DC driven digital display; tape out selector; dual RIAA EQ circuitry. Inputs for MM phono, phono 2, tape. Amp section: 70 W/ch into 8 ohms. FM section: 50-dB quieting sens stereo 1.65 μV (14.6 dBf); max S/N with 65 dBf (1,000 μV), A-wtd stereo 75 dB $750

HK495i 45-W/ch AM/FM Receiver
AM/FM-stereo receiver with digital synthesized quartz-locked tuner. Features reactive load and high instantaneous current capability, low negative feedback; ultrawide bandwidth. Inputs for MM phono, tape, CD player. Amp section: 45 W/ch into 8 ohms. FM section: alt-ch sel 65 dB; 50-dB quieting sens mono 1.65 μV (15.6 dBf), max S/N, A-wtd stereo 75 dB; sep 50 dB at 1,000 Hz; capture ratio 1.2 dB..... $435

HK395i 30-W/ch AM/FM Receiver
AM/FM-stereo receiver with digital synthesized quartz-locked tuner. Features reactive load and high instantaneous current capability, low negative feedback. Inputs for MM phono, 2 tape monitors, CD player. Amp section: 30 W/ch into 8 ohms. FM section: alt-ch sel 65 dB; 50-dB quieting sens mono 1.65 μV (15.6 dBf), max S/N, A-wtd, stereo 75 dB; sep 50 dB at 1,000 Hz; capture ratio 1.2 dB. AM section: sens 15 μV $325

HK385i 30-W/ch AM/FM Receiver
AM/FM-stereo receiver with reactive load and high instantaneous current capability. Features ultrawide bandwidth; low negative feedback; discrete circuitry. Inputs for MM phono, tape, CD player. Amp section: 30 W/ch into 8 ohms. FM section: alt-ch sel 60 dB; 50-dB quieting sens mono 1.9 μV (16.8 dBf), max S/N, A-wtd, stereo 74 dB; sep 45 dB at 1,000 Hz; capture ratio 1.5 dB. AM section: sens 15 μV $275

HITACHI

HTA50AVSW 50-W/ch AM/FM Receiver
Quartz digital-synthesized tuner section; 20 AM/FM presets; unified infrared remote control; surround-sound control system; audio inputs for phono, CD, tape; video inputs for TV, VCR, videodisc player; electronic volume and balance controls; 5-band graphic equalizer; rosewood end caps. 50 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.05% THD $500

JVC

RX950VBK Audio/Video Receiver
Receiver with unified wireless remote control to operate receiver plus selected JVC Compu-Link components. Features MOL LCD remote control; Dynamic Super A, Gm Driver; computer-controlled digital-synthesis tuning; 16 AM/16 FM station presets; auto memory; preset scan; dB signal-strength indicator; variable stop level; auto QSC; electronic 7-band equalizer with 5 user-programmmable and 5 preset EQ curves; spectrum analyzer display; high-gain phono EQ for MM/MC cartridges; sleep timer; three video inputs; 2-way dubbing; sound selector; acoustic expander; built-in CATV module for music source from CATV; preamp output. Power output: 120 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.007% THD..... $800

RX9VBK Audio/Video Receiver
Receiver with unified wireless remote control to operate receiver plus selected JVC Compu-Link components. Features Dynamic Super A, Gm Driver; computer-controlled digital-synthesis tuning; 16 AM/16 FM station presets; auto memory; preset scan; dB signal-strength indicator; variable stop level; auto QSC; electronic 7-band equalizer with 5 user-programmmable and 5 preset EQ curves; spectrum analyzer display; high-gain phono EQ for MM/MC cartridges; sleep timer; three video inputs; 2-way dubbing; sound selector; acoustic expander; built-in CATV module for music source from CATV. Power output: 120 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.007% THD $720

RX750BK Audio/Video Receiver
Receiver with unified wireless remote control to operate receiver plus selected JVC Compu-Link components. Features Dynamic Super A, Gm Driver; computer-controlled digital-synthesis tuning; 16 AM/16 FM station presets; auto memory; preset scan; dB signal-strength indicator; variable stop level; auto QSC; electronic 7-band equalizer with 5 user-programmmable and 5 preset EQ curves; spectrum analyzer display; high-gain phono EQ for MM/MC cartridges; sleep timer; three video inputs. 100 W/ch into 8 ohms from 20-20,000 Hz with <0.007% THD..... $635

RX8VBK Audio/Video Receiver
Receiver with unified wireless remote control to operate receiver plus selected JVC Compu-Link components. Features Dynamic Super A, Gm Driver; computer-controlled digital-synthesis tuning; 16 AM/16 FM station presets; auto memory; preset scan; dB signal-strength indicator; variable stop level; auto QSC; electronic 7-band equalizer with 5 user-programmmable and 5 preset EQ curves; spectrum analyzer display. 100 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.007% THD..... $600

RX550VBK Audio/Video Receiver
Receiver with unified wireless remote control to operate receiver plus selected JVC Compu-Link components. Features Dynamic Super A, Gm Driver; computer-controlled digital-synthesis tuning; 16 AM/16 FM station presets; auto memory; preset scan; electronic 7-band equalizer with 5 user-programmmable and 5 preset EQ curves; sleep timer; three video inputs; sound selector; acoustic expander; optional CATV antenna control unit. 60 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.007% THD $475

RX450VBK Audio/Video Receiver
Receiver with unified wireless remote control to operate receiver plus selected JVC Compu-Link components. Features Dynamic Super A, Gm Driver; computer-controlled digital-synthesis tuning; 16 AM/16 FM station presets; auto memory; preset scan; 7-band graphic equalizer; sleep timer; acoustic expander; optional CATV antenna control unit. Power output: 50 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.03% THD $350

RX350VBK Audio/Video Receiver
Receiver with unified wireless remote control to operate receiver plus selected JVC Compu-Link components. Features Dynamic Super A, Gm Driver; digital-synthesis tuning; 16 AM/16 FM station presets; auto memory; preset scan; 5-band graphic equalizer; sleep timer; acoustic expander; optional CATV antenna control unit. Power output: 45 W/ch into 8 ohms from 40-20,000 Hz with no more than 0.08% THD $315

RX250VBK Audio/Video Receiver
Receiver with unified wireless remote control to operate receiver plus selected JVC Compu-Link components. Features Dynamic Super A, Gm Driver; digital-synthesis tuning; 16 AM/16 FM station presets; auto memory; preset scan; bass and treble controls; sleep timer; acoustic expander; optional CATV antenna control unit. Power

BEYOND CONVENTIONAL SYSTEM CONTROL

THE ONKYO TX-84 AND RC-AV1—Capable of operating any manufacturer's audio or video components with a single remote control

Today's audio/video home entertainment systems typically incorporate a variety of audio and video components, all operating with their own separate remote controls.

Introducing.... The ONKYO TX-84—the first receiver ever offered with a "Universal" Programmable Remote Control that can operate any wireless remote controlled components from any manufacturer. For total control of the TX-84 and everything else in your audio/video system, ONKYO introduces the "Unifier"—Universal Programmable Remote Control. With the RC-AV1, the functions of many brands of infrared remotes can be memorized into one master unit, eliminating inter brand remote incompatability forever. The RC-AV1 can be easily programmed to operate over 100 functions, with function keys conveniently grouped in three modes—audio, video, and auxiliary. The RC-AV1 "Universal" Remote Control is available for sale separately or included as an option with the TX-84.

Designed for the audio/video enthusiast, the ONKYO TX-84 offers outstanding sonic performance in addition to full A/V capability. The TX-84 delivers 60 watts of FTC rated power per channel into 8 ohms with no more than .04% THD. Features such as low impedance drive capability, discrete output stages, Automatic Precision Reception, and Dynamic Bass Expander make the TX-84 the equal of any comparable audio-only receiver. Its seven inputs (5 audio, 2 video) offer total system versatility, while the Stereo Image Expander and Simulated Stereo can optimize any video or audio soundtrack.

Together, the TX-84 and RC-AV1M can form the heart of your audio/video system. Audition them today at your ONKYO dealer!

Artistry In Sound

ONKYO

200 Williams Drive, Ramsey, N.J. 07446

Consolidate Yo

How the world's most powerful receiver can provide the benefits of audiophile separates in a single, remote control component.

Never before has so much clean power, pure sound and unique technology been available at the touch of a remote control button.

The Carver Receiver 2000, at your service. In a single, exquisitely-styled component, we've engineered three of the most significant contributions ever made to audio technology.

A 200 watt RMS per channel Magnetic Field Power Amplifier.

A Sonic Hologram Generator for a three-dimensional sound experience.

An Asymmetrical Charge-Coupled FM Stereo Detector in the tuner section for the cleanest, most noise-free reception possible . . . plus AM STEREO.

Plus a low-noise high definition preamplifier and surround sound processor so you can create a true home theater experience.

Everything necessary for music enjoyment. Settle back in your chair and pick up the compact Receiver 2000 wireless remote control.

Touch the POWER button. Two hundred watts RMS per channel spring to life. More than any other receiver offered today. The kind of power needed to deliver Compact Discs' incredible dynamic range with the impact and clarity it deserves.

But you're in the mood for a record. Touch one of the four source buttons to select PHONO. As the record comes to life, you realize that it would be a superb candidate for Sonic Holography. Another touch of the

ur Power Base.

remote control and you're suddenly in the midst of the performers, a part of the musical experience.

Suddenly, the phone rings. You reduce the volume easily without leaving your chair and take the call. Later on, you select a favorite FM station from the twelve presets while you catch up on your reading. The sound is hiss-free, even when the station is far away. A great oldie comes on and you use the Receiver 2000's remote to turn it up and rattle the windows for a moment the way you always wished you could when that song first came out.

In the evening, it's movie time. The Receiver 2000 becomes your gateway to high impact surround sound that rivals any Dolby-equipped theater. Starships cruise through your living room. Aliens prowl behind the couch. Laser battles erupt over your coffee table.

All controlled from the comfort of your chair.

A wealth of useful features. From the silky feel of the large, easy-to-use knobs, to the switched and unswitched power sockets on the Receiver 2000's back, you'll find that no detail has been overlooked. Even if it didn't have three of Bob Carver's major innovations tucked inside it, the Receiver 2000 would be one of the finest receivers you could own.

It has inputs for phono, Compact Disc player and even video sound sources. It allows 2-1 and 1-2 dubbing through dual tape deck inputs and outputs, and selection of two sets of speakers or a combination.

Precision, defeatable tone controls are provided for bass, treble *and* midrange, as well as a preset "loudness" equalization curve for acoustic compensation during low level listening.

The bright digital readout and signal strength LEDs are only a hint of the high quality quartz synthesized FM section and AM stereo circuitry within. Choose from six FM and six AM station presets, tune manually or use the Receiver 2000's automatic station search feature.

Ample Power for Digital. Even before Compact Disc players, clipping distortion caused by lack of amplifier power has been the critical listener's enemy. Speakers create music by generating magnetic fields inside their voice coils. A drum beat sounds on a record; energy flows to your speakers; the speakers push the air. In the case of low bass notes, this means having enough power to resonate the entire cubic volume of your listening room thirty times per second!

The sad fact is, few receivers have the technical capabilities to provide the amount of power needed to complete instantaneous music transient waveforms.

Before Bob Carver invented the Magnetic Field Power Amplifier, the only way to get enough power to completely eliminate clipping distortion was to give up owning a receiver and buy a traditional power amplifier and put up with its bulk, heat and expense. The Carver Receiver 2000 uses a better way. An affordable method of delivering the power speakers need without thermal waste, bulk and distortion. Our Magnetic Field Power Amplifier design is elegant, effective and fully described in the 32-page brochure we'll be glad to send you.

The finest receiver FM section. The Carver FM Stereo Receiver 2000 employs Asymmetrical Charge-Coupled Detector technology which makes FM sound as good as other stereo sound sources. Free of background hiss, click and pops, picket fencing and other multipath interference annoyances which disturb FM enjoyment.

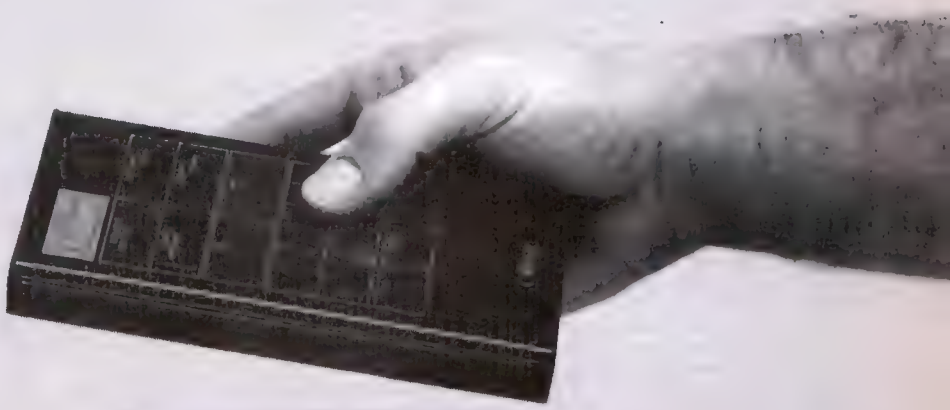
Or, in the words of Audio Magazine's Len Feldman, *"The significance of it's design can only be fully appreciated by tuning the weakest, most unacceptable stereo signal you can find, then pushing those two magic buttons. Separation is still there; only the background noise has been diminished, and with it, much of the sibilance and hissy edginess so characteristic of multipath interference."*

True realism with Sonic Holography. In a live setting, sound approaches from all sides, not just head on the way it does from stereo speakers. Sonic Holography uncovers critical timing and phase information that exists in your and CD's records, but has been inaudible with normal stereo components. Through the Carver 2000, this information emerges in three-dimensional space around you, pinpointing the precise location of instruments and vocals.

You don't need a trained ear to notice the difference. Suddenly the listening field extends wider, higher and deeper than your speakers, literally immersing you in the performance.

The best of everything in one compact component. There has never been a more complete method of enjoying music than the Carver Receiver 2000. Occupying just over two square feet of shelf space, it gives you the power, the tuning ability and the miracle of Sonic Holography that can bring any music or video source to vibrant life. Audition it at your Carver dealer. And then shift the balance of power to your stereo system soon.

Power: 200 watts RMS per channel into 8 ohms. 20-20kHz with no more than 0.15% THD.



CARVER P.O Box 1237, Lynnwood, WA 98046

POWERFUL MUSICAL ACCURATE

CIRCLE NO. 18 ON READER SERVICE CARD

Distributed in Canada by: evolution technology

output: 35 W/ch into 8 ohms from 40-20,000 Hz with no more than 0.08% THD $260

RX150BK AM/FM Receiver
Features digital synthesis tuning; 8 AM/8 FM station presets; auto loudness contour; connections for 2 pairs of speakers; FM mode/muting switch. 25 W/ch into 8 ohms from 40-20,000 Hz with no more than 0.5% THD $185

KENWOOD

KR-V126R Audio/Video Receiver
A/V receiver with unified full remote control and built-in surround-sound decoder. Features high-capacity VIR power amplifier; three video connections and dubbing with audio injection; Dolby Surround and theater/stadium effects; 20-station name preset system (SNPS) for FM/AM/CATV; music-select system presets stations into 5 categories; preset scan with music calendar; 7-band electronic graphic equalizer with 10 presets and presence control; 7-band spectrum analyzer; video through-dubbing (VCR 2 to 1, 3 to 1); auto memory entry for FM; 10-key direct frequency input (main/remote); equalizer recording switch; MM/MC cartridge selector; speaker A/B selector; 5 W/ch rear speaker amplifier. 125 W/ch min rms, both channels driven at 8 ohms from 20-20,000 Hz with no more than 0.008% THD; S/N phono MM/MC 82/63 dB, CD, AUX, tape 100 dB, video 90 dB; FM 50 dB quieting sens 14.2 dBf (mono), 37.2 dBf (stereo); FM S/N 74 dB (stereo) at 65 dBf; FM sep 50 dB at 1,000 Hz; sel 55 dB at 400 Hz; capture ratio 1.0 dB. 16.56" w x 5.25" h x 14.5" d; 22.9 lb $650

KR-V106R Audio/Video Receiver
A/V receiver with unified full remote control and built-in surround-sound system. 100 W/ch min rms, both channels driven at 8 ohms from 20-20,000 Hz with no more than 0.008% THD; S/N phono 82 dB, CD, AUX, tape 100 dB, video 90 dB; FM 50 dB quieting sens 14.2 dBf (mono), 37.2 dBf (stereo); FM S/N 74 dB (stereo) at 65 dBf; FM sep 50 dB at 1,000 Hz; sel 55 dB at 400 Hz; capture ratio 1.0 dB. 16.56" w x 5.25" h x 14.5" d; 22.3 lb $560

KR-V86R Audio/Video Receiver
A/V receiver with unified full remote control. Features high-capacity VIR power amplifier; three video connections and dubbing with audio injection; 20-station name preset system (SNPS) for FM/AM/CATV; music-select system presets stations into 5 categories; preset scan with music calendar; 7-band electronic graphic equalizer with 10 presets and presence control; video through-dubbing. 80 W/ch min rms, both channels driven at 8 ohms from 20-20,000 Hz with no more than 0.008% THD; S/N phono 73 dB, CD, AUX, tape 100 dB, video 90 dB; FM 50 dB quieting sens 14.2 dBf (mono), 37.2 dBf (stereo); FM S/N 74 dB (stereo) at 65 dBf; FM sep 50 dB at 1,000 Hz; selectivity 55 dB at 400 Hz; capture ratio 1.0 dB $460

KR-V76R Audio Video Receiver
A/V receiver with unified full remote control. Features three video connections and dubbing with audio injection; 12-station name preset system for FM/AM; 24-station preset memory without SNPS. 70 W/ch min rms, both channels driven at 8 ohms from 20-20,000 Hz with no more than 0.03% THD; S/N phono 73 dB, CD, AUX, tape 100 dB, video 90 dB; FM 50 dB quieting sens 14.2 dBf (mono), 37.2 dBf (stereo); FM S/N 72 dB (stereo) at 65 dBf $350

KR-A56R AM/FM Receiver
Receiver with full-function infrared remote control. Features auto function selector system; quartz-PLL tuning; 20-station FM/AM presets; preset scan; 10-key direct frequency input (remote); 2 video sound inputs; 5-band graphic equalizer; equalizer recording switch; two tape inputs with monitor; muting; electronic input selectors; fluorescent multi-display; speaker A/B selector; headphone jack. 55 W/ch min rms, both channels driven at 8 ohms from 20-20,000 Hz with no more than 0.08% THD; S/N phono 73 dB, CD, AUX, tape 100 dB; FM 50 dB quieting sens 17.2 dBf (mono), 38.2 dBf (stereo). 16.56" w x 4.31" h x 9" d; 11.7 lb $295

KR-A46 AM/FM Receiver
Features auto function selector system; quartz-PLL tuning; 16-station FM/AM presets; preset scan; bass and treble controls; loudness control; electronic input selectors; fluorescent multi-display; speaker A/B selector; headphone jack. 40 W/ch min rms, both channels driven at 8 ohms from 20-20,000 Hz with no more than 0.09% THD; S/N phono 72 dB, CD, AUX, tape 95 dB; FM 50 dB quieting sens 17.2 dBf (mono), 38.2 dBf (stereo); FM S/N 72 dB (stereo) at 65 dBf; FM sep 40 dB at 1,000 Hz; sel 53 dB at 400 Hz; capture ratio 1.2 dB. 16.56" w x 4.31" h x 9.31" d; 10.1 lb $205

KYOCERA

R-861 Tuner/Amplifier
Features 100 W/ch (continuous rms, both channels driven into 8 ohms, from 20 Hz, with no more than 0.02% THD); 3-band parametric EQ for exacting tonal adjustment; switchable MM/MC phono preamp; preamp out/main amp in jacks; subsonic filter; quartz-frequency synthesis tuning with high-speed 2,500 Hz comparator for low noise; switchable IF bandwidth; defeatable bass/treble controls; Dolby FM de-emphasis switch; 7 AM and 7 FM preset stations; high-blend feature. FM S/N 76 dB stereo, 82 dB mono; slew rate 50 V/μsec; rise time 1.0 μsec; S/N (IHF-A) phono MC 74 dB, phono MM 85 dB, high-level inputs 100 dB $1,200

R-661 Tuner/Amplifier
Features 70 W/ch (continuous rms, both channels driven into 8 ohms, from 20-20,000 Hz, with no more than 0.02% THD); defeatable bass and treble controls for exacting tonal adjustment; switchable MM/MC phono preamp; preamp out/main amp in jacks; subsonic filter; quartz-frequency synthesis tuning with high-speed 2,500 Hz comparator for low noise; switchable IF bandwidth; 7 AM and 7 FM presets; high-blend feature. FM S/N 74 dB stereo, 80 dB mono; slew rate 50 V/μsec; rise time 1.0 μsec; S/N (IHF-A) phono MC 64 dB, phono MM 82 dB, high-level inputs 100 dB $900

R-461 Tuner/Amplifier
Inputs for MM phono, 2 tape, 2 AUX, CD player. Amp section: 50 continuous average W/ch from 20-20,000 Hz with no more than 0.02% THD into 8 ohms; dynamic headroom 2.1 dB; IHF IMD 0.02%; FR 30-15,000 Hz ± 1 dB. FM section: alt-ch sel 55 dB; 50-dB quieting sens mono 17 dBf (50 dB), stereo 37.2 dBf (50 dB); max S/N, A-wtd, mono 77 dB, stereo 72 dB; THD mono 0.08%, stereo 0.12%; sep 48 dB at 1,000 Hz; capture ratio 1.2 dB. AM section: loop sensitivity 300 μ/V. 18.12" wide x 4.31" high x 12.12" deep; 18.5 lb $650

RC-101 Remote Control Unit. Wireless remote control center for selection/function control of Kyocera remote-control products $320
RS-103 Remote Control Center. Features single-cable connection to Kyocera RC-101 control center and external remote control sensor $90
RT-102 Remote Sensor. Hand-held wireless remote transmitter with 12 receiver, 6 tape deck, and 5 CD player functions $60

LUXMAN

R-117 160-W/Ch AM/FM Receiver
Receiver with full-function system remote control including video and video sound switching. Features low-impedance drive capability; CD straight mode; FET differential phono input; 5

gang varacters, dual gate MOSFET's; pre-out/main-in. Power output 160 W/ch from 20-20,000 Hz with <0.03% THD; IMD <0.03% (35 W/8 ohms); S/N 88 dB (MM), 70 dB (MC), 98 dB (CD, tape, A/V); FM sens (stereo) 36 dBf; FM S/N (stereo) 75 dB; FM THD (stereo) <0.1% $1,200
R-115. Similar to above with 75 W/ch $750
R-113. Similar to above with 35 W/ch; THD <0.08%. No remote control $400

MARANTZ

TA 170AV Remote-Control Receiver
Receiver with 16-preset digital tuning; 5-band graphic equalizer; electronic volume; VCR to VCR dubbing; power meter. Inputs for MM phono, tape, CD player. Amp section: 165 continuous average W/ch 20-20,000 Hz with no more than 0.05% THD into 8 ohms; FR 10-35,000 Hz ± 1 dB. FM section: alternate-ch sel 50 dB; 50-dB quieting sens, mono 15 dBf, stereo 37 dBf; max S/N, A-wtd, mono 76 dB, stereo 68 dB; THD mono 0.15%, stereo 0.3%; sep 42 dB at 1,000 Hz; capture ratio 1 dB. 16.5" w x 7.25" h x 13" d; 34 lb $650

TA 135AV Remote-Control Receiver
Receiver with 16-preset digital tuning; 5-band graphic equalizer; electronic volume; VCR to VCR dubbing; power meters; inputs for MM phono, tape, CD player. Amp section: 130 continuous average W/ch 20-20,000 Hz with no more than 0.05% THD into 8 ohms; 50-dB quieting sens, mono 16 dBf, stereo 38 dBf; other specs similar to TA 170's (above). 16.5" w x 7.25" h x 13" d; 30 lb $570

TA 100 Remote Control Receiver
AM/FM receiver with 16 preset stations; 5 band EQ; inputs for MM, phono, tape, CD, 2 video sources, VCR to VCR dubbing. 100 W/ch; 0.1% THD; 11.8 dBf IHF sens; 5.88" h x 16.63" w x 12.63" d; 23.7 lb $500

TA 60 Remote-Control Receiver
Receiver with 24-preset digital tuning, 7-band graphic equalizer. Inputs for MM phono; tape; compact disc player; video sound source. Amp section: 60 continuous average W/ch from 20-20,000 Hz with less than 0.1% THD into 8 ohms. FM section: 50-dB quieting sens, stereo 39.2 dBf; max S/N with 65 dBf (1,000 μV), A-wtd stereo 68 dB; THD, stereo 0.3%; capture ratio 1.2 dB; alt-ch sel 50 dB. 16.5" w x 7.25" h x 10.25" d; 17.2 lb $350

SR-560 Stereo Receiver
Features 16 preset digital tuning; 7 band EQ; inputs for MM phono, tape, CD, 2 video ; VCR to VCR dubbing. 45 W/ch; 0.3% THD; 11.2 dBf sens IHF. 3.63" h x 16.5" w x 10" d; 11.9 lb ... $250

SR-360 Stereo Receiver
Features 5-band equalizer; 16 preset tuning; inputs for MM phono, tape, CD. 25 W/ch; 0.3% THD. 3.63" h x 16.5" w x 10" d; 9.7 lb ... $200

You get out of our new Sherwood S-2770R CP digital remote-control receiver what you put into it. Like your TV audio. Your VCR audio and video. Your compact disc player. Your turntable. Your tape deck. Your everything. All in stereo. At 74 watts per channel.

The S-2770R CP even has the ability to synthesize stereo from monaural sources, such as normal broadcast and cable TV. Add an extra pair of speakers in the back of your entertainment room and turn it into a theater.

The S-2770R CP can decode rear channel information present in most stereo sound and video programs. Video tapes of movies you buy or rent are made from films originally shown in theaters, where rear channel sound is all part of the experience. The S-2770R CP lets you recreate that surround-sound experience right in your own home.

You also get full video dubbing capability through permanent rear panel connections, or through conveniently located jacks on the front for those occasions you need a second VCR. There's more:

The wireless remote to control all of your components from across the room. A quartz digital AM/FM tuner with 16 presets. A digitally controlled seven-band graphic equalizer/spectrum analyzer with five different EQ memory settings. Auto/manual scan tuning. Loudness and sub-bass EQ. −20dB mute function. An LED signal-strength indicator.

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CIRCLE NO. 19 ON READER SERVICE CARD

McINTOSH

MAC 4200 Receiver
Stereo AM/FM receiver with 100 W/ch into 4 ohms, 75 W/ch into 8 ohms. 54 lb $2,890

NAD

7175 PE AM/FM Receiver
Features power-envelope circuitry; inputs for MM phono, MC phono, tape; aux, CD player, video sound source. 75 continuous average W/ch from 20-20,000 Hz into 8 ohms with less than 0.03% THD. 16.5" w x 4.25" h x 15" d; 20 lb, 4 oz..... $748

D250 PE AM/FM Receiver
Features power-envelope circuitry; inputs for MM phono, MC phono, aux, CD player, video sound source. 50 continuous average W/ch from 20-20,000 Hz into 8 ohms with less than 0.03% THD. 16.5" w x 4.25" h x 15" d; 20 lb, 6 oz$598

7130 Digital AM/FM Receiver
AM/FM receiver with inputs for MM phono; MC phono; aux, tape. Amp section: 30 continuous average W/ch from 20-20,000 Hz with no more than 0.03% THD into 8 ohms; dynamic headroom +3 dB; IHF IMD 0.03%. FM section: alt-ch sel 70 dB; 50-dB quieting sens mono 2.8 μV (14.2 dBf), stereo 28 μV (34.2 dBf); max S/N, A-wtd, mono 82 dB, stereo 75 dB; THD mono 0.09%, stereo 0.09%; sep 50 dB at 1,000 Hz; capture ratio 1.5 dB. AM section: sens 300 μV. 42 cm w x 10.8 h x 38 d; 17 lb, 9 oz $378

7125 AM/FM-Stereo Receiver
Digitally tuned receiver with Dyn Sep circuit. Features presets for 5 stations; center-tune indicator; loudness compensation and bass EQ switches; mono button. Amp section: continuous average power output 25 W at 8 ohms min rms power per channel 20-20,000 Hz both chs driven with no more than rated distortion 20-20,000 Hz THD <0.05%; THD <0.05% 20-20,000 Hz from 250 mW to rated output; TIM <0.02% with 15,000 Hz sine wave +3.18 Hz square wave at rated output. Tuner section: IHF usable sens 1.9 μV (10.8 dBf); 50-dB quieting mono 3.0 μV (14.8 dBf); 50-dB quieting stereo 30 μV (34.8 dBf); S/N 65 dB A-wtd, mono/stereo 80/75 dB; FR 30-15,000 Hz; 3.25" h x 16.5" w x 11.25" d $298

NAKAMICHI

SR-4A AM/FM Stereo Receiver
Stereo receiver with Stasis power amp, multi-regulated power supply, extensive video switching. Inputs for MM phono, MC phono, tape, CD player, video sound source; VCR/laser disc. 60 contin-

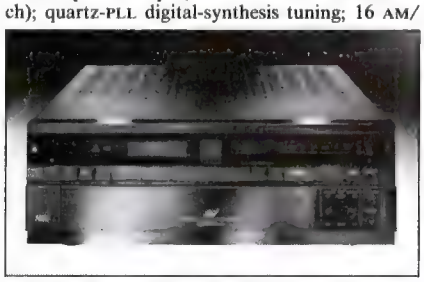
uous average W/ch from 20-20,000 Hz with no more than 0.1% THD into 8 ohms; dynamic headroom 1.3 dB; 200-ms dynamic power 80 W. FM 50-dB quieting sens stereo 37.5 dBf; S/N 74 dBA at 65 dBf; THD stereo 0.07%; capture ratio 1.5 dB; AM rejection 60 dB; alt-ch sel 60 dB. 16.94" w x 3.94" h x 19.56" d; 22 lb, 4 oz..... $895

SR-3A AM/FM Stereo Receiver
Stereo receiver with Stasis power amp, multi-regulated power supply, defeatable subsonic filter. Inputs for MM phono, MC phono, tape, CD player, video sound source; 2 video sources. 45 continuous average W/ch from 20-20,000 Hz with no more than 0.1% THD into 8 ohms; dynamic headroom 1.5 dB; 200-ms dynamic power 64 watts. FM 50-dB quieting sens stereo 37.5 dBf; S/N 74 dBA at 65 dBf; THD stereo 0.07%; capture ratio 2 dB; AM rejection 60 dB; alt-ch sel 55 dB. 16.94" w x 3.94" h x 14.56" d $650

SR-2A AM/FM Stereo Receiver
Stereo receiver with Stasis power amp, multi-regulated power supply. Inputs for MM phono, tape, CD player. 30 continuous average W/ch from 20-20,000 Hz with no more than 0.1% THD into 8 ohms; dynamic headroom 1.7 dB; 200-ms dynamic power 45 watts. FM 50-dB quieting sens stereo 37.5 dBf; S/N 74 dBA at 65 dBf; THD stereo 0.07%; capture ratio 2 dB; AM rejection 60 dB; alt-ch sel 55 dB. 16.94" w x 3.94" h x 14.56" d; 16 lb, 9 oz $449

NEC

AVR-1000 Audio/Video Receiver
AM/FM receiver with built-in Dolby and matrix surround-sound processors. Features unified remote control with LCD readout that can operate other NEC audio and video components; four built-in power amps (one for each front and rear ch); quartz-PLL digital-synthesis tuning; 16 AM/



FM station presets; preset scan; FM mute; selectable wide/narrow IF bandwidth; 3 volume level/channel balance presets; computer-controlled volume and input selection; audio mute; a master volume control; front/rear volume control; front-left, front-right, rear-left, and rear-right volume controls; rear and front bass/treble controls. Inputs for phono, CD player, tape deck, AUX, TV, and VCR. Tuner section: FM usable sens 10.8 dBf (0.95 μV); FM S/N 74 dB stereo. Amp section: 100 W/ch into 8 ohms from 20-20,000 Hz with 0.02% THD (front), 50 W/ch into 8 ohms (rear). 16.94" w x 5.5" h x 16.94" d; 35 lb $869

AVR-700 Audio/Video Receiver
Similar features as AVR-1000 except has 70 W/ch into 8 ohms from 20-20,000 Hz with 0.02% THD (front), 35 W/ch into 8 ohms (rear). 16.94" w x 5.5" h x 16.94" d $649

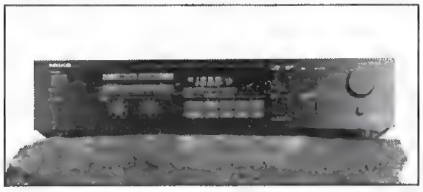
R-510 Audio/Video Receiver
Remote-controlled AM/FM receiver with 16 AM/FM station presets. 50 W/ch..... $499

NIKKO

AVR-65 Audio/Video Receiver
Remote-controlled AM/FM, UHF, CATV stereo receiver with built-in MTS/SAP decoder and 139-channel tuning. Features quartz-locked tuner; 2 video inputs/outputs; 10 AM/10 FM presets. 65 W/ch into 8 ohms with 0.05% THD; FR 20-20,000 Hz. S/N 65 db $900

NR-1050R Audio/Video Receiver
Remote-controlled receiver with 100 W/ch; 2 tape inputs; 20 station presets; bi-directional dubbing; L/R mic; 4-band graphic EQ $700
NR-850R. Same as above with 65 W/ch .. $500
NR-750. Same as above with 48 W/ch/rms $299.95
NR-650. Same as above with 38 W/ch/rms $259.95

R-25 AM/FM Receiver
Features 2 tape monitor inputs; phono input; CD input; subsonic filter. 25 W/ch rms with 0.05%

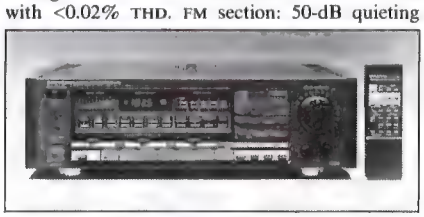


THD; FM usuable sens. 15 dBf (1.5 μV); S/N 120 dB $200

ONKYO

TX-SV7 Audio/Video Receiver
Audio/video AM/FM receiver with Onkyo's RV-AV7M universal remote control to operate receiver plus a variety of other audio and video componetns. Features built-in MTS decoder for stereo broadcasts; built-in surround-sound processor with Dolby, matix, and hall surround sound; simulated stereo; 12 AM/FM station presets; FM mute; inputs for 4 speakers; bass, treble, and balance controls. Inputs for CD player, phono; VDP, VCR, tape 1, and tape 2. 100 W/ch, 75 W/ch (front) and 25 W/ch (rear) in surround mode $1,000

Integra TX-108 AM/FM Receiver
Computer-controlled AM/FM receiver with full-function wireless remote control that can also operate selected Onkyo turntables, tape decks, and CD players. Automatic precision reception system controls stereo/mono, local/DX, high-blend on/off, and NR on/off functions. 100 continuous average W/ch from 20-20,000 Hz into 8 ohms with <0.02% THD. FM section: 50-dB quieting



sens 40 μV (37.2 dBf) stereo; capture ratio 1.3 dB; alt-ch sel 70 dB. 18.88" w x 5.88" h x 18.12" d; 33 lb $850

Integra TX-88 AM/FM Receiver
Computer-controlled AM/FM receiver with full-function wireless remote control that also operates selected Onkyo turntables, tape decks, and CD players. Automatic precision reception system controls stereo/mono, local/DX, high-blend on/off, and NR on/off functions. Features real-phase power supply; dynamic bass expander; simulated stereo; preset memory scan; motorized volume control; FM/video simulcast capability. Inputs for MM phono; tape; tape 2; CD player; video sound source; VCR; VDP. Amp section: 80 continuous average W/ch from 20-20,000 Hz into 8 ohms with <0.025% THD. FM section: 50-dB quieting sens 40 μV (37.2 dBf) stereo; capture ratio 1.5 dB; alt-ch sel 70 dB. 17.75" w x 5.88" h x 18.12" d; 26 lb $680

TX-RV47 AM/FM Receiver
Audio/video receiver with full-function wireless remote control that also operates selected Onkyo turntables, tape decks, and CD players. Features matrix surround-sound system for theater surround sound from movie sound tracks with 4-speaker systems; dynamic bass expander; stereo-image expander; stereo synthesizer; preset memory scan; FM/video simulcast capability. 55 continuous average W/ch from 20-20,000 Hz into 8 ohms with <0.08% THD. FM 50-dB quieting sens 40 μV (37.2 dBf) stereo $500

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Cerwin-Vega Europe: Skanderborgvej 71/DK-8680 Ry, Denmark

CIRCLE NO. 82 ON READER SERVICE CARD

TX-84 AM/FM Receiver
Remote-controlled AM/FM receiver with a computer-controlled automatic precision reception system to control the stereo/mono, local/DX, high-blend on/off, and NR on/off functions. Features dynamic bass expander; stereo image expander; simulated stereo; audio/video dubbing; selective tone control; discrete output stage. Inputs for VCR 1/VDP, VCR 2, tape 1, tape 2, MM phono, and CD player. Amp section: 60 W/ch min rms into 8 ohms from 20-20,000 Hz with no more than 0.04% THD; FR 20-30,000 Hz ± 1 dB. FM section: usable sens 17.2 dBf (4 μV) stereo; 50-dB quieting sens 37.2 dBf (40 μV) stereo; capture ratio 1.5 dB. 17.12" w x 4.38" h x 13.5" d; 18.8 lb . $450
TX-84(M). Same as TX-84 except includes RC-AV1M universal remote control $530

TX-82 AM/FM Receiver
Remote-controlled AM/FM receiver with a computer-controlled automatic precision reception system to control the stereo/mono, local/DX, and high-blend on/off functions. Features simulated stereo; audio/video dubbing; selective tone control; discrete output stage. Inputs for VCR 1/VDP, VCR 2, tape 1, tape 2, MM phono, and CD player. Amp section: 45 W/ch min rms into 8 ohms from 20-20,000 Hz with no more than 0.08% THD; FR 20-30,000 Hz ± 1 dB. FM section: usable sens 17.2 dBf (4 μV) stereo. 17.12" w x 4.38" h x 13.5" d; 16.5 lb $350
TX-82(M). Same as TX-82 except includes RC-AV1M universal remote control $430

TX-80 AM/FM Receiver
Remote-controlled AM/FM receiver with a computer-controlled automatic precision reception system to control the stereo/mono and local/DX functions. Features electronic feather-touch input selectors; direct tone controls; 16 AM/FM station presets. Amp section: 33 W/ch min rms into 8 ohms from 20-20,000 Hz with no more than 0.3% THD; FR 20-30,000 Hz ± 1 dB $230

PARASOUND

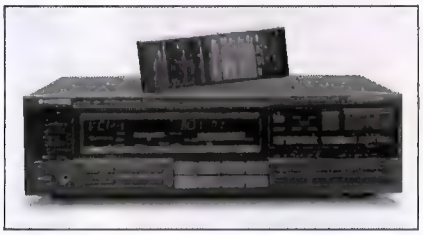
DR65 65-W/ch AM/FM Receiver
Quartz-synthesizer tuning; full-function wireless remote; electronic input switching and volume control; 6 AM/FM presets; T-10 discrete output transistors; discrete phono preamp; separate phono output selector; subsonic filter; preamp output jacks; auto/manual tuning; variable loudness; 5-LED tuning meters. 65 W/ch into 8 ohms; dynamic headroom 2 dB. FM section: alt-ch sel 68 dB; quieting sens mono 15.3 dBf, stereo 39.2 dBf; max S/N, A-wtd mono 80 dB, stereo 77 dB; sep 44 dB at 1,000 Hz; 17.25" w x 3.33" h x 11.5" d; 23 lb $495

DR40 40-W/ch AM/FM Receiver
Quartz-synthesizer tuning; variable loudness; infrasonic filter; discrete output transistors; 5 presets; detented controls; relay protection with 2-color LED's; 5-LED signal-strength meter; separate preamp output jacks. Inputs for MM phono, tape, CD, video sound source. Amp section: 40 W/ch into 8 ohms. 17.25" x 3.25" x 11" .. $325

DR25 25-W/ch AM/FM Receiver
Digital frequency readout. Inputs for MM phono, tape, CD, video sound source. Amp section: 25-watts-per-channel 20-20,000 Hz into 8 ohms; dynamic headroom 2 dB. 17.5" w x 3.25" h x 11" d; 16 lb $240

PIONEER

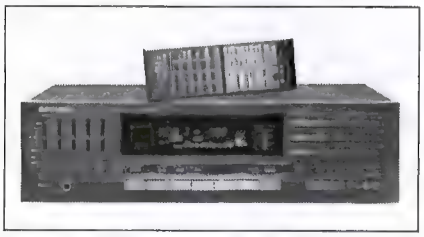
VSX-5000(BK) Audio/Video Receiver
Features unified remote control to operate all Pioneer "SR" components; nonswitching-amp (Type-II); low-imp drive capability; 3 video inputs with stereo audio; 2-way video dubbing and simultaneous recording; video enhancer with split screen; built-in 4-mode surround-sound processor



with Dolby; video noise filter; dynamic expander; quartz-PLL digital-synthesis tuner with 20 random presets; 2 RF inputs (standard FM and cable FM); direct-access tuning; 3-position tone controls; separate audio and video switching; audio tape dubbing; front-panel LCD readout; selectable FM display (frequency or call letters). 100 continuous average W/ch into 8 ohms from 20-20,000 Hz with no more than 0.005% THD in stereo mode, 70 W/ch with 0.007% THD in surround mode. 4.88" h x 16.56" w x 15.12" d $570

VSX-4000(BK) Audio/Video Receiver
Features unified remote control to operate Pioneer "SR" components; 3 video inputs with stereo audio; 2-way video dubbing and simultaneous recording; video enhancer with split screen; speaker-matrix surround-sound processor; video noise filter; nonswitching-amp (Type-II); low-imp drive capability; quartz-PLL digital-synthesis tuner with 20 random station presets; direct-access tuning; simulated stereo; 3-position tone controls; separate audio and video switching; audio tape dubbing; front-panel LCD readout; selectable FM display (frequency or call letters). 60 continuous average W/ch into 8 ohms from 20-20,000 Hz with no more than 0.005% THD. 4.88" h x 16.56" w x 15.12" d $430

VSX-3000 Audio/Video Receiver
Features unified remote control to operate Pioneer "SR" components; 3 video inputs with 2-way dubbing and simultaneous recording; built-in



5-band graphic EQ; video signal selector for separate audio/video switching; quartz-PLL synthesis tuning with 20 random station presets; auto and manual station search; built-in surround-sound processor with simulated stereo; multi-function FL display; connections for 2 pairs of speakers; VCR noise filter; audio adaptor loop; electronic violume control; programmable 24-hr digital time and clock display; anti-resonance construction with copper-plated screws. 60 continuous average W/ch into 8 ohms from 20-20,000 Hz with no more than 0.05% THD. 4.75" h x 16.56" w x 12.62" d $350

VSX-2000 Audio/Video Receiver
Features unified remote control to operate Pioneer "SR" components; 2 video inputs; built-in 5-band graphic EQ; video signal selector for separate audio/video switching; quartz-PLL sunthesis tuner with 20 random station presets; auto and manual station search; multi-function FL display; simulated stereo; connections for 2 pairs of speakers; electronic volume control; programmable 24-hr digital time and clock display; anti-resonance construction with copper-plated screws. 50 continuous average W/ch into 8 ohms from 20-20,000 Hz with no more than 0.1% THD. 4.75" h x 19.56" w x 12.62" d $300

SX-1600 AM/FM Receiver
Features built-in 5-band graphic EQ; quartz-PLL synthesis tuner with 20 random station presets; auto and manual station search; connections for 2 pairs of speakers; simulated stereo; anti-resonance construction. 50 continuous average W/ch into 8 ohms form 20-20,000 Hz with <0.3% THD. 3.88" h x 16.56" w x 8.69" d $240

SX-1100 AM/FM Receiver
Features built-in 5-band graphic EQ; quartz-PLL synthesis tuner with 20 random station presets; auto and manual station search; connections for 2 pairs of speakers; anti-resonance construction. 25 continuous avergae W/ch into 8 ohms from 40-20,000 Hz with <0.3% THD. 3.88" h x 16.56" w x 8.69" d $200

Accessories

JA-RF5 RF Modulator
Converts composite (baseband) video to RF so that video from an A/V system can be viewed on a TV without a video input. Features selectable output frequency; video/TV switch for VHF antenna loop-through; 5-pin DIN connector and "F"-type for video in/TV out. For use with Pioneer VSX-5000, 4000, 3000, and 2000 audio/video receivers $50

PROTON

D940 AM/FM Receiver
Receiver with Dynamic Power on Demand (DPD) circuitry and Schotz NR. Features high dynamic power capabilities (rating 8/4/2 ohms to 160/280/380 W/ch); 4-gang FM front end; 2-gang AM front end; selectable phono section for MM and MC phono; speaker EQ; separate low-noise MC amp; active volume control; infrasonic filter. Inputs for MM, MC phono; phono 2; tape; AUX; extra AUX; CD; video sound source. Amp section: 40 continuous average W/ch from 20-20,000 Hz with less than 0.02% THD into 8 ohms; dynamic headroom 6 dB; IHF IMD 0.008%; FR 20-20,000 Hz ± 0.2 dB. FM section: alt-ch sel 55 dB; adj-ch sel 90 dB; 50-dB quieting sens 33.2 dBf stereo; S/N 70 dB stereo; THD stereo 0.2%; sep 45 dB at 1,000 Hz; capture ratio 1.5 dB. 16.5" w x 4" h x 10.12" d; 20 lb $449

AV-300 AM/FM Receiver
Digitally synthesized stereo receiver. Features Schotz PLL detector. Inputs for MM phono, tape, AUX, video sound source. Remote control optional. 30 continuous average W/ch from 20-20,000 Hz with <0.02% THD into 8 ohms; includes Dynamic Power on Demand which boosts dynamic

PRICES LISTED
are manufacturers' suggested retail prices
(also referred to as *list* prices);
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All prices are subject to change without notice.

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Once again, AR reshapes the future of high fidelity.

No longer do you need to live with components that look more at home in a power station than in your home. No longer need you sacrifice sound quality for some semblance of sound design.

AR, the company that revolutionized loudspeakers with the Acoustic Suspension design, now changes the face of stereo components forever. By combining world-class industrial and electronic design, AR has produced the first audio components as pleasing to the eye as they are to the ear.

The front fascias are gracefully angled, so controls fall readily to hand. Behind a hinged panel, infrequently-used controls are ready when you need them, out of sight when you don't.

AR has reexamined the factors that really matter to sound quality. That's why AR amplifiers produce high current output for outstanding dynamic headroom. Four-times oversampling gives the AR Compact Disc player absolute phase linearity. And AR's unified remote control adds a final touch of elegance.

No one serious about stereo would buy equipment without listening. Now it's no longer necessary to buy without looking.

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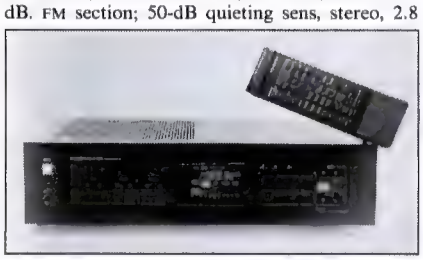
power to 120 W (8 ohms) with 6 dB dynamic headroom; IHF IMD 0.015%; FR 17-35,000 Hz ± 1 dB. FM section; 50-dB quieting sens, stereo, 2.8



μV; max S/N, A-wtd, stereo 70 dB; THD stereo 0.2%; sep 50 dB at 1,000 Hz; capture ratio 1.5 dB. AM section: sens 300 μV/m. 20 lb; 16.5" w x 3.75" h x 9.75" d $399

RCA

MSR250 Audio/Video Receiver
Dimensia A/V receiver with unified remote control and on-screen status indication when used with Dimensia monitor. Features 5-band graphic equalizer; automatic input selection; remote control volume, mute, direct access and station scan, and power; SystemLink cabling; simultaneous recording and playback; auto status indication; auto switching; electronic volume control; output protection; preset turn-on volume; fluorescent display; muting; quartz-PLL synthesis tuning; auto stereo/mono switching; preset channel scanning; signal processing loop; 4 AC convenience outlets. Amp section: 50 W/ch in 8 ohms both channels driven from 20-20,000 Hz with no more than 0.08% THD; S/N 85 dB; EQ center frequencies at 63, 250, 1,000, 4,000, and 16,000 Hz; EQ range ± 10 dB. Tuner section: FM sens 12.2 dBf; S/N 73 dB; sel 60 dB; sep 40 dB at 1,000 Hz; capture ratio 1.5 dB; FM FR 30-15,000. 14.63" w x 4.13" h x 13.38" d $429

REALISTIC

AV-900 FM/AM/TV A/V Receiver
Receives VHF TV broadcasts (decodes MTS stereo and SAP), UHF broadcasts, cable-TV channels; 140-channel TV tuner; wireless remote control (needs 2 AAA batteries); video signal processing and dubbing; digital-synthesized tuner; stores 4 pairs of cable/FM channels; RF output on channel 3 or 4; baseband output for monitors. Inputs for phono, tape, CD player, two VCR's, surround-sound decoder. 35 W/ch into 8 ohms $600

STA-2700 Remote-Controlled Receiver
Quartz tuning; 6 AM and 6 FM presets; search tuning; digital frequency display; 5-part LED signal-strength meter; 2-part dual output power meters; 2-way tape dubbing and 2-deck monitoring; loudness control; MPX blend; FM muting; high filter; infrasonic filter; function LED's; overload and overheating protection. Remote requires 2 AA batteries. 100 W/ch into 8 ohms $500

STA-2280 60-W/ch AM/FM Receiver
AM/FM-stereo receiver with 6 AM and 6 FM presets and IMX stereo expander to extend sound stage and improve imaging precision. Drives 2 pairs of speakers; headphone jack; 2 AC outlets. Inputs for MM phono; tape; tape 2; aux; CD player. Amp section: 60 W/ch into 8 ohms, 98 W into 4 ohms. FM section: 50-dB quieting sens stereo 40 μV (32 dBf); max stereo S/N 70 dB with 65 dBf (1,000 μV) A-wtd; capture ratio 1 dB; AM rej 50 dB; alt-ch sel 70 dB $400

STA-116 30-W/ch AM/FM Receiver
6 AM/6 FM presets; 300-/75-ohm FM and AM antennas; quartz digital tuning; feather-touch manual or auto tuning; 5-LED signal-strength meter; loudness control; subsonic filter. Inputs for MM phono; tape; aux; CD player. Amp section: 30 W/ch into 8 ohms. FM section: 50-dB quieting sens stereo 39.8 μV (32 dBf); max S/N with 65 dBf (1,000 μV) A-wtd stereo 60 dB; capture ratio 1.5 dB; AM rej 50 dB; alt-ch sel 50 dB $260

STA-125 22-W/ch AM/FM Receiver
Quartz digital tuning; search up or down; feather-touch controls; 6 AM/6 FM presets; FM muting; 5-LED signal-strength meter; loudness control. Inputs for MM phono; tape; aux; CD player. Amp section: 22 W/ch into 8 ohms. FM section: capture ratio 2 dB; AM rej 45 dB; alt-ch sel 50 dB $220

STA-460 22-W/ch AM/FM Receiver
PLL tuning; loudness button; FM muting; drives 2 pairs of speakers; stereo/mono switch; bass, treble, volume, balance controls; overheating and overload protection. Inputs for MM phono; tape; aux; CD player. Amp section: 22 W/ch into 8 ohms. FM section: capture ratio 3 dB; alt-ch sel 50 dB $180

STA-19 5-W/ch Personal Receiver
Inputs for FM, AM, phono, tape. Features Auto-Magic fine tuning; jack for mini headphones; jack for mini cassette players; special EQ switch; loudness control. Walnut vinyl over metal case. 5 W/ch into 8 ohms; S/N 70 dB phono, 72 aux; IHF sens 22.3 dBf; sep at 1,000 Hz 35 dB $120

REVOX

B285 AM/FM Receiver
AM/FM stereo receiver with two microprocessors for control of input sensitivities, output levels, and operating functions. Features alphanumeric multi-mode LCD display; 29 AM or FM presets; level and reception mode (mono/stereo, blend) separately programmable for each preset station; programmable volume limit; −20 dB button; subsonic filter; loudness contour; programmable output levels for A and B speaker pairs; comprehensive speaker protection circuits; serial data bus for external control devices; wireless infrared remote control (transmitter optional). Inputs for phono, tape, CD player, tape 2. Amp section: 70 continuous average W/ch 20-20,000 Hz with no more than 0.03% THD into 8 ohms; dynamic headroom 2.5 dB; FR 20-20,000 Hz ± 0.3 dB. FM section: alternate-ch sel 96 dB; adjacent-ch sel 16 dB; 50-dB quieting sens, mono 1.6 μV (15.2 dBf), stereo 19 μV (36.8 dBf); max S/N, A-wtd, mono 84 dB, stereo 80 dB; THD mono 0.15%, stereo 0.3%; sep 43 dB at 1,000 Hz; capture ratio 2 dB. AM section: FR 120-3,000 Hz ± 6 dB; sens 36μV. 17.75" w x 6" h x 13.06" d; 33 lb $2,500

ROTEL

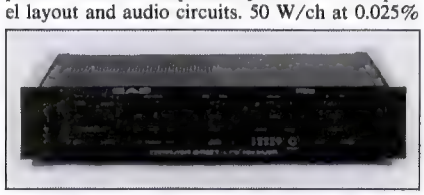
RX 875 AM/FM Receiver
70 watt bridgeable to 180/W AM/FM receiver. Digital tuning with 8 AM and 8 FM presets; THD .03%; IMD .05%; S/N (stereo) 75dB. Inputs for video $599
RX 855. Similar to above only with 7 FM and 7 AM presets and 50 W/ch $499

RX850 AM/FM Receiver
Stereo receiver with quartz-synthesizer tuning and 8 AM/8 FM station presets. Inputs for phono, tape, CD player, video sound source. Amp section: 30 continuous average W/ch 20-20,000 Hz into 8 ohms with no more than 0.05% THD; IHF IMD 0.05%; FR (phono) 20-15,000 Hz ± 0.3 dB; FR (tape, CD, video) 10-45,000 Hz +0.5, −3 dB. FM section: alternate-ch sel 60 dB; 50-dB quieting sens, mono 4 μV (17.2 dBf), stereo 60 μV (40.7 dBf); S/N mono 82 dB, stereo 77 dB; THD, mono 0.15%, stereo 0.4%; sep 43 dB at 1,000 Hz; capture ratio 1.5 dB. AM section: sens 250 μV/m. 17" w x 3.88" h x 15" d; 15.1 lb $329

RX830 AM/FM Receiver
Stereo receiver with LED dial pointer. Inputs for phono, tape, CD player, video sound source. Amp section: 20 continuous average W/ch from 20-20,000 Hz THD into 8 ohms with no more than 0.08%; IHF IMD 0.08%; FR (phono) 20-15,000 Hz ± 0.3 dB, FR (tape, CD, video) 10-38,000 Hz +1, −3 dB. FM section: alt-ch sel 65 dB; 50-dB quieting sens, mono 4 μV (17.2 dBf), stereo 60 μV (40.7 dBf); S/N, mono 70 dB, stereo 65 dB; THD, mono 0.3%, stereo 0.5%; sep 38 dB at 1,000 Hz; capture ratio 2.0 dB. AM section: sens 300 μV/m. 17" w x 3.88" h x 13" d; 12.7 lb $219

SAE

R-102 Stereo Receiver
AM/FM stereo receiver utilizes an on-board computer to eliminate dependency between front-panel layout and audio circuits. 50 W/ch at 0.025%



THD. All controls grouped by function. Features alphanumeric and digital readouts for input functions, tone, volume, balance settings, station frequency and tuner memories; 3 digital tone memories; tuner memory scan; phono power amp; high-current main power amp $499

SANSUI

S-X1200 AM/FM Stereo Receiver
AM/FM receiver with random presetting of 16 FM and AM stations. Features channel call and preset scan; connections for two VCR's with bi-directional dubbing; sound attacker to add sonic impact to video image; LED power meters; processor terminals; hi-blend; variable loundness; Amp section: 120 continuous average W/ch 20-20,000 Hz with no more than 0.015% THD into 8 ohms; FR 10-70,000 Hz +1, -3 dB. FM section: 50-dB quieting sens,(Mono) 10.8 dBf; 17.31" w x 5.34" h x 17.12" d; black finish; 30 lb $1,000
X900. Similar to S-X1200 except 80 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.02% THD $750

S-XV1000 Audio/Video Receiver
Audio/video receiver with video signal processing controls; connections for 3 VCRs; remote control; 16 random station presets; subharmonic synthesizer for bass enhancement; fader control; color balance. Inputs MM phono, phono 2, tape, AUX, CD, video sound source. Amp section: 80 continuous average W/ch from 20-20,000 Hz with less than 0.01% THD into 8 ohms; frequency response 10-100,000 Hz ± 3 dB. FM section: max S/N ratio, A-wtd, mono 76 dB. 16.94" w x 5.25" h x 16.56" d; 20 lb $650

S-X700 AM/FM-Stereo Receiver
Features quartz-PLL tuning; 16 station presets; connections for 2 pairs of speakers; variable loudness control; high-blend switch. Inputs for MM phono; tape; CD player; video sound source. Amp section: 43 continuous average W/ch from 20-20,000 Hz into 8 ohms with no less than 0.08% THD. FM section: 50-dB quieting sens, stereo 50 dBf; max S/N with 65 dBf, stereo 70 dB. 16.94" w x 4.5" h x 14.25" d; 18 lb $325
S-X500. Similar to S-X700 except no high-blend switch. 30 W/ch with <0.2% THD $295

Still don't see it? That's the whole idea behind Koss' revolutionary infrared stereophone system. The Koss Kordless™ Stereophone. Now, you can enjoy all the benefits of stereophone listening with no strings attached. And while the cord may be missing, the great Sound of Koss isn't. The Kordless system is so advanced it provides a full 20-20KHz frequency response at less than 1% distortion. Plus enough signal to fill a large room. Yet it's as easy to use as conventional stereophones. Just plug the Kordless transmitter into virtually any receiver or amplifier and turn it

CAN YOU FIND THE STEREOPHONE CORD IN THIS PICTURE?

on. Roam around the room listening to a record. Dance to a CD. Enjoy stereo or mono TV broadcasts and videos in bed. Or whatever else moves you. Sound impressive? You bet it does. And the best way to appreciate this major advance in technology is to visit your nearest Koss Kordless™ Stereophone dealer. One listen, and you'll never sit still for ordinary headphones again.

• Koss Stereophones, 4129 N. Port Washington Rd., Milwaukee, WI 53212. Koss Limited, 4112 S. Service Rd., Burlington, Ontario L7L4X5. Koss-Europe: CH-6855, Stabio-Switzerland.

KOSS® stereophones

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SCOTT

STA1510 Integrated Amp With Tuner
Separate integrated amp and tuner sold together; wireless remote control; 7-band graphic equalizer; LED power meters; digital station readout; gold-plated input jacks. Inputs for MM phono, tape, CD/DAT, video sound source. Amp section: 150 W/ch into 8 ohms. FM section 50 dB quieting sens stereo 10 μV (25 dBf); max S/N 65 dB$550
STA1010. As above except 110 W/ch $450

RS50 Remote-Controlled Receiver
Includes 7-band graphic equalizer; electronic volume control; power meter. Inputs for MM phono,

tape, CD/DAT, video sound source. Amp section: 50 W/ch into 8 ohms. FM section: usable sens 5 μV (19.2 dBf) $250

RS30 AM/FM Stereo Receiver
Quartz digital-synthesizer tuning section; power output meter; high filter; presets for 8 AM and 8 FM stations. Inputs for MM phono; tape; CD/DAT. Amp section: 25 W/ch into 8 ohms. FM section: usable sens 5 μV (19.2)..... $150

SHARP

SA-X50AV Audio/Video Receiver
Receiver with multiple audio/video inputs and outputs. Features PLL-synthesis tuner; auto scan tuning; 12 presets; 5-band graphic equalizer; video-enhancer circuit; surround sound. Inputs for tape, CD, video sound source, video 1, video 2. Amp section: 50 continuous average W/ch from 40-20,000 Hz into 8 ohms <0.5% THD. 17" w x 3.88" h x 10.5" d $250

SA-X35 AM/FM Receiver
Features quartz digital-synthesi tuner; 5-band graphic equalizer; auto scan tuning; loudness switch; A, B, A+B speaker selector; 6 AM/6 FM presets. Inputs for MM phono, tape, CD player. Amp section: 35 continuous average W/ch 20-20,000 Hz with no more than 0.5% THD into 8 ohms; IHF IMD 0.15%; FR 15-35,000 Hz ± 3 dB. FM section: adjacent-ch sel 56 dB; max S/N 68 dB stere; THD 0.3% stereo; sep 32 dB at 1,000 Hz. Black or silver. 17" w x 3.69" h x 10.5" d; 10 lb $200

SHERWOOD

S-277ORCP AM/FM Receiver
Digital-synthesized AM/FM-stereo receiver with digitally controlled 7-band EQ and LED spectrum analyzer. Features 4 EQ memories; 16 station presets; video dubbing; infrared remote control; surround sound; front-panel 2-ch-audio VCR input; MOSFET input stage. Inputs for tape, CD player; video sound source; VCR; VCR 2; VDP (audio only). Amp section: 74 continuous average W/ch from 20-20,000 Hz with less than 0.3% THD into 8 ohms. FM section: 50-dB quieting sens stereo 35 50 μV (36.1 dBf); THD stereo 0.15%; capture ratio 1.5 dB; AM rejection 55 dB..... $430

S-275OCP AM/FM Receiver
AM/FM-stereo receiver with 5-band graphic EQ. Features 16 station presets; surround sound; MOSFET input stage; synthetic stereo mode for mono source material; auto-scan tuning; quartz-PLL digital-synthesized tuning. Inputs for tape, aux; CD player; video sound source. Amp section: 55 continuous average W/ch from 20-20,000 Hz with less than 0.2% THD into 8 ohms. FM section: 50-dB quieting sens stereo 50 μV (39.2 dBf); THD stereo 0.5%; capture ratio 2 dB; AM rejection 50 dB; alt-ch sel 65. 17.36" w x 4.62" h x 9.25" d; 15 lb $250

S-2730CP AM/FM Receiver
AM/FM-stereo receiver with quart-PLL digital-synthesized tuning. Features 16 station presets; auto scan; surround sound; MOSFET input stage. Inputs for tape; aux; CD player; video sound source. Amp section: 35 continuous average W/ch from 20-20,000 Hz with less than 0.2% THD into 8 ohms. FM section: 50-dB quieting sens stereo 50 μV (39.2 dBf); THD stereo 0.5%; capture ratio 2 dB; AM rejection 50 dB; alt-ch sel 65. 17.36" w x 4.62" h x 9.25" d; 13.5 lb $200

SONY

STR-AV950 Audio/Video Receiver
Remote-controlled AM/FM receiver with inputs for MC/MM phono, tape 1 & 2, CD player, TV tuner, 2 video sources (1 front panel). Features ASP programmable bass and treble acoustic memory; surround sound; CATV antenna; frequency-synthesis microprocessor-controlled tuning; 10 AM/FM presets; direct-access tuning; balance and muting controls; headphone jack; A-B speaker switching; direct comparator circuit; station spectrum display; current-mirror amp driver stage; legato linear output stage; DC-servo design. Amp section: 115 continuous W/ch into 8 ohms from 20-20,000 Hz with no more than 0.006% THD; FR 5-90,000 Hz +0, −1 dB. Tuner section: 50-dB quieting sens 38.3 dBf (45 μV) stereo; S/N 76 dB stereo; alt-ch sel 65 dB narrow, 30 dB wide. 17" w x 5.12" h x 13.62" d; 21 lb $750

STR-AV850 Audio/Video Receiver
Remote-controlled AM/FM receiver with inputs for MM phono, tape 1 & 2, CD player, TV tuner, 2 video sources (1 front panel). Features ASP programmable bass and treble acoustic memory; surround sound; CATV antenna; frequency-synthesis microprocessor-controlled tuning; 10 AM/FM presets; direct-access tuning; balance and muting controls; headphone jack; A-B speaker switching; direct comparator circuit; station spectrum display; current-mirror amp driver stage; legato linear output stage. Amp section: 80 continuous W/ch into 8 ohms from 20-20,000 Hz with no more than 0.006% THD; FR 5-90,000 Hz +0, −1 dB. Tuner section: 50-dB quieting sens 38.3 dBf (45 μV) stereo; S/N 76 dB stereo; alt-ch sel 65 dB narrow, 30 dB wide. 17" w x 5.12" h x 13.62" d; 18 lb $600

STR-AV650 Audio/Video Receiver
Remote-controlled AM/FM receiver with inputs for MM phono, tape 1 & 2, CD player, TV tuner, 2 video sources (1 front panel). Features ASP programmable bass and treble acoustic memory; surround sound; CATV antenna; frequency-synthesis; 10 AM/FM presets; direct-access tuning; balance and muting controls; headphone jack; A-B speaker switching; direct comparator circuit; current-mirror amp driver stage. Amp section: 65 continuous W/ch into 8 ohms from 20-20,000 Hz with no more than 0.008% THD; FR 5-90,000 Hz +0, −1 dB. Tuner section: 50-dB quieting sens 38.3 dBf (45 μV) stereo; S/N 74 dB stereo; alt-ch sel 60 dB narrow. 17" x 5.12" x 11.25"; 16 lb ... $500

STR-AV550 Audio/Video Receiver
Remote-controlled AM/FM receiver with inputs for MM phono, tape 1 & 2, CD player, 2 video sources (1 front panel). Features ASP programmable bass and treble acoustic memory; surround sound; frequency-synthesis; 10 AM/FM presets; direct-access tuning; balance and muting controls; headphone jack; A-B speaker switching; direct comparator circuit; current-mirror amp driver stage. Amp section: 55 continuous W/ch into 8 ohms from 20-20,000 Hz with no more than 0.03% THD; FR 10-70,000 Hz +0, −1 dB. Tuner section: 50-dB quieting sens 38.3 dBf (45 μV) stereo; S/N 74 dB stereo; alt-ch sel 60 dB narrow. 17" w x 5.12" h x 11.25" d; 15 lb $370

STR-AV450 AM/FM Receiver
Remote-controlled AM/FM receiver with inputs for MM phono, tape deck, CD player, 1 video source. Features ASP programmable bass and treble acoustic memroy; quartz frequency-synthesis tuning; 10 AM/FM presets; direct-access tuning; auto sweep tuning; preset scan; balance and muting controls; headphone jack; A-B speaker switching; direct comparator circuitry; separate power supplies. Amp section: 35 continuous W/ch into 8 ohms from 20-20,000 Hz with no more than 0.8% THD; FR 10-70,000 Hz +0, −1 dB. Tuner section: 50-dB quieting sens 38.3 dBf (45 μV) stereo; S/N 70 dB stereo; alt-ch sel 60 dB narrow. 17" w x 4.25" h x 11.38" d; 11 lb. $300

STR-AV250 AM/FM Receiver
Features inputs for MM phono, tape deck, CD player, 1 video source; quartz frequency-synthesis tuning; 10 AM/FM presets; direct-access tuning; auto sweep tuning; preset scan; balance and loudness controls; headphone jack; A-B speaker switching; separate power supplies. Amp section: 35 continuous W/ch into 8 ohms from 20-20,000 Hz with no more than 0.8% THD; FR 10-70,000 Hz +0, −1 dB. Tuner section: 50-dB quieting sens 38.3 dBf (45 μV) stereo; S/N 70 dB stereo; alt-ch sel 60 dB. 17" x 4.25" x 11.38" $200

TANDBERG

TPR 3080 Programmable Receiver
Remote-controlablle AM/FM receiver with zero-feedback design. Features high current; digital tuner with 26 presets; seperate program and re-

cord source selectors. Inputs for MM and MC phono, CD, DAT, video, and tape. 80 W/ch. Rosewood side panels. Remote control optional; 17.13" w x 5.25" h x 13.75" d; 27 lb $1,795

TECHNICS

SA-R510 AM/FM Receiver
Features 56-key wireless remote control that operates receiver and other Technics components; 7-band graphic equalizer/analyzer (max 12 dB boost or cut); memory for 4 EQ curves; front-panel video input jacks; drives 2 pairs of speakers; quartz digital tuning section; 24 station presets called with keypad; 2-color fluorescent display; loudness; 9-part power meters. Inputs for 2 VCR's, CD player, turntable, tape deck. 100 W/ch; FM sens 11.2 dBf; FM sel 65 dB; 50-dB quieting sens stereo 40.2 dBf $750
SA-R410. Similar to above except 40-key remote $600
SA-R310. Similar to above except 55 W/ch; 5-band equalizer/analyzer $400
SA-R210. Similar to above except 40 W/ch 3-band equalizer; 30-key remote $300

SA-290 AM/FM-Stereo Receiver
Features quartz-synthesizer digital tuning, soft-touch controls, slim design. Black finish. Inputs

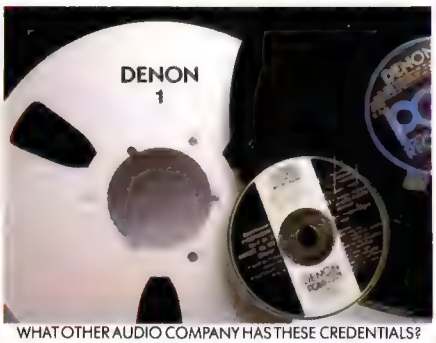
How a 77 year-old became the first name in digital audio.

Denon's been involved in every phase of music reproduction since the days of wind-up record players. So after seven decades of breakthroughs in studio recording, disc pressing, home high fidelity and professional equipment, we were uniquely prepared to take the next step. A tape

EVERY DENON COMPONENT REFLECTS LESSONS LEARNED IN THE RECORDING STUDIO.

recorder so fundamentally different, it would obsolete every previously accepted notion of how good recorded sound could be.

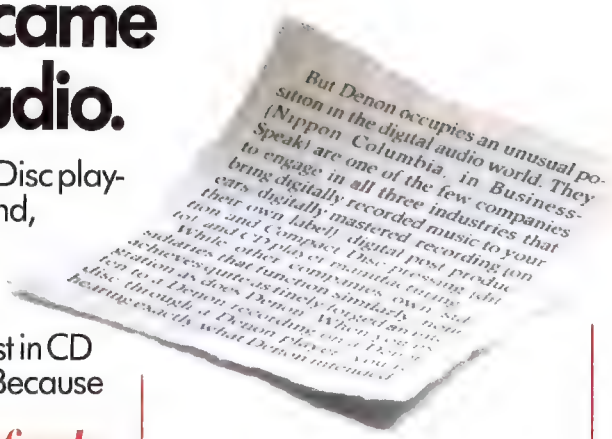
In 1972, Denon researchers achieved their goal. The world's first digital recorder worthy of commercial record



WHAT OTHER AUDIO COMPANY HAS THESE CREDENTIALS?

production, the legendary Denon DN-023R. We quickly put our digital innovation to use, producing digital processors, digital editors, digital mixers, and the world's first digitally-recorded LPs.

Today, Compact Disc players, regardless of brand, reflect the influence of the original Denon DN-023R. But this heritage runs strongest in CD players from Denon. Because



But Denon occupies an unusual position in the digital audio world. They (Nippon Columbia, in Business-Speak) are one of the few companies to engage in all three industries that bring digitally recorded music to your ears: digitally mastered recording (on their own label), digital post production and CD plus of course digital pressing. While other companies own and achieves that turn-on similarly, near-station as does Denon. When you go top to a Denon recording on a Denon disc through a Denon player, you hear exactly what Denon intended.

"One of the most finely engineered pieces of audio gear on the planet."

Ken Pohlmann, *Digital Audio*, on the DCD-3300

the same engineers who design Denon pro machines design

THE NEW DCD-1500II. ITS SUPER LINEAR CONVERTER COMES STRAIGHT OUT OF DENON STUDIO RECORDERS.

Denon home audio. And the same ears that guide Denon recording sessions evaluate the sound of Denon playback components.

Perhaps that's why each succeeding generation of Denon CD players is eagerly anticipated by the world's audio critics. And why they've variously hailed our CD players as "a winner on every count," "the player I recommend most highly," "superlatives have to be used," and "in several respects, the best I've ever heard."

Reactions which simply demonstrate one point. It's a lot easier to make audio sound like music when you really know what music sounds like.

"A look into the interior of this player reveals that Denon engineers were not taking any shortcuts whatsoever."

Germany's *Hi-Fi Vision*, on the DCD-1500

DENON

DESIGN INTEGRITY

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Stereo Review
P.O. Box 55627
Boulder, CO 80322-5627

for MM phono; tape; CD player. Amp section: 50 continuous average W/ch from 20-20,000 Hz with <0.3% THD; dynamic headroom 1.2 dB. FM section: 50-dB quieting sens stereo 56 μV (40.2 dBf); max S/N with 65 dBf (1,000 μV) A-wtd stereo 71 dB; THD stereo 0.3%; capture ratio 1 dB; AM rejection 50 dB; alt-ch sel 65 dB. 16.94" w x 3.89" h x 9.56" d; 11.7 lb $245
SA-2029. As above in silver $225

SA-180 AM/FM Receiver
Features quartz digital tuning section; 16 station presets; auto scan; 3-LED signal-strength display; drives main and remote speakers; loudness; headphone jack; electronic protection. Inputs for tape deck, CD player, turntable. 35 W/ch; FM sens 11.2 dBf; FM sel 65 dB. $200

SA-130 AM/FM-Stereo Receiver
Features built-in loudness compensation, low-distortion tone controls. Inputs for MM phono; tape; CD player. Amp section: 35 continuous average W/ch from 40-20,000 Hz with <0.5% THD; dynamic headroom 1 dB. FM section: 50-dB quieting sens stereo 45 μV (38.3 dBf); max S/N with 65 dBf (1,000 μV) A-wtd stereo 70 dB; THD stereo 0.3%; capture ratio 1 dB; AM rejection 50 dB; alt-ch sel 60 dB. 16.94" W × 3.89" H × 9.89" D; 10.8 lbs $165

VECTOR RESEARCH

VRX-9200R Audio/Video Receiver
120-W/ch A/V receiver with full-function remote control. Features motorized rotary volume control; built-in Dolby Surround; pre-out/main-in jacks; video signal routing; A/V processing loop; video monitor output; dedictated CD input; quartz-synthesis tuning; 20 station presets; preset scan; mono/stereo switch; A/B RF antenna inputs; FM autoscan; 2 tape monitors with dubbing in either direction; MC head amp; high and subsonic filters; parallel speaker switching; surround level, front/rear balance $750

VRX-8200R Audio/Video Receiver
110-W/ch A/V receiver with full-function remote control. Features motorized rotary volume control; built-in matrix surround; pre-out/main-in jacks; video signal routing; A/V processing loop; video monitor output; dedictated CD input; quartz-synthesis tuning; 20 station presets; preset scan; mono/stereo switch; A/B RF antenna inputs; FM autoscan; 2 tape monitors with dubbing in either direction; MC head amp; high and subsonic filters; parallel speaker switching $600

VRX-7200R Audio/Video Receiver
65-W/ch A/V receiver with full-function remote control. Features motorized rotary volume control; built-in matrix surround; pre-out/main-in jacks; video signal routing; A/V processing loop; video monitor output; dedictated CD input; quartz-synthesis tuning; 16 station presets; mono/stereo switch; A/B RF antenna inputs; FM autoscan; 2 tape monitors with dubbing; MC head amp; loudness contour; parallel speaker switching $450

VRX-4200 Audio/Video Receiver
65-W/ch A/V receiver with built-in matrix surround. Features pre-out/main-in jacks; video signal routing; video monitor output; dedictated CD input; quartz-synthesis tuning; 16 station presets; mono/stereo switch; A/B RF antenna inputs; FM autoscan; 2 tape monitors with dubbing; MC head amp; loudness; parallel speaker switching . $350

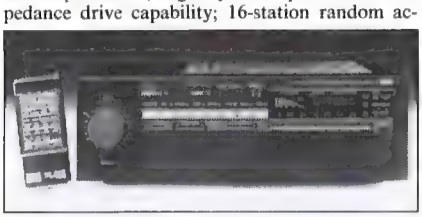
For explanations of abbreviations, specifications, and technical terms, consult the glossary on page 221.

VRX-3500 Receiver
Features discrete output amp section; synthesized tuner. Inputs for MM phono; tape; aux; CD; video sound source. 40 continuous average W/ch from 20-20,000 Hz with less than 0.08% THD into 4 ohms; dynamic headroom 2.5 dB; IHF IMD 0.08%; 20 lbs. 17" w x 3" h x 12" d $250

VR-2300 Receiver
25-W/ch receiver features A/B speaker switching; analog flywheel tuning; loudness contour; headphone jack; tape monitor. Inputs for CD and MM phono $150

YAMAHA

RX-1100U Audio/Video Receiver
AM/FM reciever with RS integrated system remote control. Features digtal tuner; absolute linear amplification; high dynamic power; low-impedance drive capability; 16-station random access preset tuning; digital fine tuning; continuously variable loudness control; dual tape monitor inputs; pre-main coupling terminals; three video source inputs; video and audio record out selectors; video enhancer with level and detail control; switching for three pairs of speakers; LED indicator on volume knob. 125 W/ch min rms into 8 ohms from 20-20,000 Hz with less than 0.015% THD. Black finish; 30 lb $949



RX-900U Audio/Video Receiver
AM/FM reciever with RS integrated system remote control. Features digtal tuner; absolute linear amplification; high dynamic power; low-impedance drive capability; 16-station random access preset tuning; digital fine tuning; continuously variable loudness control; pre-main coupling terminals; three video source inputs; video and audio record out selectors; video enhancer with level and detail control; switching for two pairs of speakers. 85 W/ch min rms into 8 ohms from 20-20,000 Hz with less than 0.015% THD. Black finish; 29 lb $699

RX-700U Audio/Video Receiver
AM/FM reciever with RS integrated system remote control. Features digtal tuner; high dynamic power; low-impedance drive capability; 16-station random access preset tuning; continuously variable loudness control; two video source inputs; video and audio record out selectors; video enhancer with level control. 65 W/ch min rms into 8 ohms from 20-20,000 Hz with less than 0.015% THD. Black finish; 17 lb $549

RX-500U AM/FM Receiver
AM/FM reciever with wireless remote control. Features digtal tuner; high dynamic power; low-impedance drive capability; continuously variable loudness control; switching for two pairs of speakers. 50 W/ch min rms into 8 ohms from 20-20,000 Hz with less than 0.015% THD. Black finish; 15 lb $379

RX-300U AM/FM Receiver
Features digtal tuner; high dynamic power; low-impedance drive capability; 16-station random access preset tuning; 10-segment signal-strength meter; tape monitor selector; dynamic bass extension control; continuously variable loudness control. 37 W/ch min rms into 8 ohms from 20-20,000 Hz with less than 0.015% THD. Black finish; 15 lb $269

The affordable new hybrid from Audio Research... the one worth waiting for!

SP9
STEREO PREAMPLIFIER

The SP9 Hybrid Stereo Preamplifier represents a further evolution of the innovative electronic design first embodied in the widely acclaimed Audio Research SP11 Stereo Preamplifier. The SP9 is not a "stripped-down" version of the SP11, but rather represents an adaptation of some of the SP11's patented hybrid technology to a simpler, more economical single-chassis format.

Using just two 6DJ8 vacuum tubes (one in the phono section and one in the high-level stage) in intermediary gain stages, the SP9 expresses the musicality and natural "rightness" vacuum-tube preamplifiers have been noted for, yet it does so with the quickness and dynamic vigor of the best solid-state designs.

HIGH DEFINITION® MUSIC REPRODUCTION EQUIPMENT

audio research corporation

CIRCLE NO. 61 ON READER SERVICE CARD

Operational Features

Automatic muting circuit for warmup, powerline voltage drop or interruption; plus manual (switchable) muting of main preamplifier outputs.

Full tape functions: two inputs, two outputs, plus two-position tape monitor switching.

Gold-plated input/output jacks selected for sonic purity. These connect "ground" before "hot," disconnect "hot" before "ground" for protection of other components.

Shielded, toroidal power transformer for minimal mechanical noise and "hum."

Phono section impedance internally adjustable for precise matching to moving-coil or moving-magnet phono cartridges.

Tube complement: two 6DJ8 vacuum tubes (one in phono stage, one in line stage).

Low noise (78dB below 1V RMS input phono, more than 100dB below 1V RMS input high-level) plus substantial overall gain (66dB) makes the SP9 usable with a wide range of popular moving-coil phono cartridges.

SP9 Specifications

FREQUENCY RESPONSE:
High level section:
± .5dB, 5Hz to 50kHz/ — 3dB points below 1Hz and above 200kHz.
Phono: ± .3dB of RIAA, 30Hz to 40kHz

DISTORTION: Less than .01% at 2V RMS output. (typically less than .005% in midband)

GAIN: Phono input to tape output: 46dB
High level inputs to tape output: 0dB
Phono input to main output: 66dB
High level inputs to main output: 20dB

INPUT IMPEDANCE: 50K ohms Line Inputs; 47K Phono (Phono provisions for any value below 47K ohms or added input capacitance for matching certain magnetic cartridges.)

OUTPUT IMPEDANCE: 500 ohms main output, 850 ohms recorder output. Recommended load 60K ohms and 100pF. (20K ohms minimum and 1000pF maximum)

MAXIMUM INPUTS: Phono, 200mV at 1kHz (1000mV RMS, 10kHZ). High level inputs essentially overload-proof.

RATED OUTPUTS: 2V RMS 5Hz to 50kHz, all outputs; 60K ohm load (main output capability is 50V RMS output at ½% THD at 1kHz into a 100K ohm load with 5V RMS high level input)

POWER SUPPLIES:
Electronically-regulated low and high voltage supplies and electronic decoupling. Shielded toroid transformer. Line regulation better than .01%

NOISE:
High Level:
(1) 70uV RMS maximum residual unweighted wideband noise at main output with gain control minimum (98dB below 5V RMS output)
(2) More than 100dB below 1V RMS input (less than 7uV equivalent input noise)

Phono: 0.12uV equivalent input noise, IHF weighted, shorted input (78dB below 1mV input)

TUBE COMPLEMENT:
2 - 6DJ8/ECC88 dual triodes (Hybrid FET/Tube audio circuit, solid-state power supply)

POWER REQUIREMENTS:
100-135VAC 60Hz (200-270VAC 50/60Hz) 50 Watts

DIMENSIONS: 19″ (48 cm) W x 5¼″ (13.4 cm) H (standard rack panel) x 10¼″ (26cm) D. Handles extend 1⅝″ (4.1) cm forward of front panel. Rear chassis fittings extend ⅞″ (2.3 cm)

WEIGHT: 13 lbs. (5.9 kg) Net; 22 lbs. (10 kg) Shipping

STEREO PREAMPLIFIER

Because its two vacuum tubes are used so conservatively, the SP9 will undoubtedly prove to be one of the most reliable and low-maintenance Audio Research preamps ever — up to 10,000 hours of service life are possible before replacement of these tubes might be necessary. And, replacement tubes are not required to be select, low-noise (and expensive) types. Audio Research brand vacuum tubes obtained from your authorized dealer will provide the best performance and reliability.

Although the SP9 contains an on-board power supply (as opposed to the SP11's isolated supply), it is a highly advanced, tightly regulated design employing a shielded toroidal power transformer to minimize any potential problems of mechanical noise or hum. Location of this transformer in relation to special low-hum input circuitry has been optimized within the SP9 chassis layout to virtually eliminate transformer-related noise. (Note that while outboard power supplies have become a popular design trend among high-end audio manufacturers, simply isolating the power supply from the main chassis has little benefit if the basic design of the supply itself is second-rate. In such cases, outboard isolation may be little more than a cosmetic cure for more serious deficiencies.)

While the SP9 is designed to provide superb playback from phono records, its high-level circuits have also been optimized for other popular input sources, including compact discs. In this respect, the SP9 is virtually overload-proof, insuring maximum enjoyment of today's most dynamic program material. And, with two tape monitor loops, the SP9 offers the tape-dubbing flexibility so many listeners want but seldom find in an audiophile-grade preamplifier.

Of course, all controls and switches used in the SP9 have been carefully specified and selected to insure minimal sonic degradation — as have the other active and passive components used in the construction of the SP9. While the SP9 is more affordable than some other Audio Research preamplifiers, its more modest price was not achieved at the sacrifice of component quality. Careful, elegant design, structural simplicity and efficient manufacturing techniques have all contributed to a standard of physical integrity and musical accuracy never before achieved in this price class.

To audition the SP9 Stereo Preamplifier, visit your authorized Audio Research dealer. Black front panel available at additional cost. Call or write for literature on the complete line of Audio Research products.

audio research corporation
6801 Shingle Creek Parkway
Minneapolis, Minnesota 55430
Area Code 612/566-7570
Telex: 290-583

POWER AMPLIFIERS

ACCUPHASE BY MADRIGAL

P-600 Stereo Power Amplifier
7 parallel push-pull output stages with MOSFET pre-driver incorporating push-pull circuitry in all stages; digital peak power display; bridge connection switch; 1-dB-per-step input-level control. Drives 2-ohm speaker with guaranteed output of 700 W/ch. 300 W/ch into 8 ohms; 1,000 W into 8 ohms bridged; damping factor 300 IHF 50 Hz; S/N <125 dB IHF-A; rated input 2 V; 18.94" w x 9.19" h x 18.75" d.....$6,725

M-100 Monophonic Power Amplifier
MOSFET driver stage; digital peak-power display; heavy-duty octo-parallel push-pull output stage; cascode bootstrap, push-pull differential amp input section; DC servo-controlled direct-coupled input stage; series regulator regulated power supply; 1-dB stepping precision attenuator; low filter with selectable 10, 17, 30, or 50 Hz cutoff; phase-inverting switch; provision for ventilation fan. Guaranteed specs: power output 800 W into 4 ohms, 500 W into 8 ohms, 250 W into 16 ohms, all min RMS; damping factor 300; S/N 130 dB; 91.4 lb.....$5,750

P-500 Stereo Power Amplifier
Basic amp with power meters; bridge conection allows 1,000 W mono into 4 ohms, 500 W/ch into 2 ohms. 250 W/ch into 8 ohms; 19" w x 8.6" h x 17.5" d; 73.7 lb.....$5,750

P-300V 180-W/ch Power Amplifier
With power meters. 180 W/ch into 8 ohms; bridgeable for 500 W into 8 ohms, 300 W into 2 ohms; 17.5" w x 6.4" h x 14.7" D; 50.6 lb$4,000

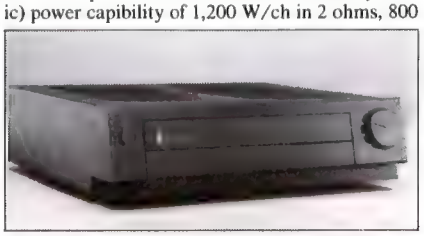
ACOUSTAT

Trans-Nova Twin-200 Power Amplifier
Full FET amp designed to obtain >1,000 damping factor in audio band with no first-order distortion in output stage. Features Complement Feedback circuit to eliminate negative-feedback problems. Output power 200 W/ch into 8 ohms at 0.1% THD; full-power FR 2-400,000 Hz +0/−3 dB; slew rate 165 V/μsec; 40 lb.....$1,249

120. Smaller version of TNT 200. 120 W/ch into 8 ohms at 0.1% THD; slew rate 165 V/μs; 28 lb..... $799

ACOUSTIC RESEARCH

AR P-10 Power Amplifier
Power amp with massive transient (IHF dynamic) power capibility of 1,200 W/ch in 2 ohms, 800



W into 4 ohms, and 400 into 8 ohms. 150 continuous average W/ch from 20-20,000 Hz into 8 ohms with no more than 0.3% THD, 200 W into 4 ohms; 200-ms dynamic power 300 W; dynamic headroom 4.3 dB; S/N 95 dB; slew rate 30 V/μs; IMD 0.03%. 17" w x 4.33" h x 14.5" d ... $800

ADA (AUDIO DESIGN ASSOC.)

PBA-500 Subwoofer Amplifier
Continuously variable level, frequency and bandwidth controls. 20-segment LED output meter; toroidal power transformer; fan cooled; front-panel switch and fuse; 800 W bridged mono from 20-200 Hz with no more than 0.05% THD into 8 ohms; 1,200 W into 4 ohms; slew rate 10 V/μsec; IMD 0.08%; 19" w x 7.5" h x 12.5" d; 49 lb$4,295

PF-300 Power Amplifier
MOSFET power amplifier capable of driving ½-ohm loads continuously. Front-panel power switches, indicators, and fuses; dual-mono design with independent toroidal transformers; fan cooled; 200 W/ch from 20-20,000 Hz with no more than 0.05% THD into 8 ohms; 300 W into 4 ohms; slew rate 10 V/μsec; IMD 0.08%; 48 lb; 19" w x 7" h x 15.5" d $3,995

PT-200 Power Amplifier
Dual-mono power amp capable of driving 1-ohm loads. Features 44-segment triangular LED output meters with peak indication; front-panel power switches, indicators, fuses; stepped attenuator gain controls; soft-clipping circuit; dual toroidal power transformers; fan cooled; standard EIA rack-mountable. 60 continuous average W/ch from 20-20,000 Hz with no more than 0.06% THD into 8 ohms; 110 watts into 4 ohms; S/N 102 dB; slew rate 12 V/μsec; IMD 0.15%. 28 lb; 19" w x 3.5" h x 16.88" d $2,195

PF-300 Power Amplifier
MOSFET power amplifier capable of driving ½-ohm loads continuosly. Front-panel power switches, indicators, fuses; dual-mono design with independent toroidal transformers; 100 W/ch from 20-20,000 Hz with no more than 0.09% THD into 8 ohms; 160 W/ch into 4 ohms; slew rate 15 V/μsec; IMD 0.07%; 37 lb; 19" w x 5.25" h x 15.5" d $1,495

PBA-150 Subwoofer Amplifier
Subwoofer amp with continuously variable adjustable level, frequency and bandwidth controls. Features 20-segment LED output meter. Front-panel power switch, indicator, fuse; fan cooled; standard EIA rack-mountable. 100 continuous average W/ch from 20-200 Hz with no more than 0.06% THD into 8 ohms; 125 watts into 4 ohms; S/N 101 dB; slew rate 10 V/μsec; intermodulation distortion 0.07%. 20 lbs; 19 w x 5.25" h x 12.5" d $1,295

PF-200 Power Amplifier
MOSFET power amp capable of driving 1-ohm loads. Features 4-segment LED output meters; front-panel power switch; indicator and fuse; toroidal power transformer; fan cooled; standard EIA rack-mountable. 60 continuous average W/ch from 20-20,000 Hz with no more than 0.07 % THD into 8 ohms; 110 watts into 4 ohms; S/N 95 dB; slew rate 10 V/μsec; IMD 0.07%. 25 lb; 19" w x 5.25" h x 15.5" d $995

PT-50 Power Amplifier
Compact power amp capable of handling 2-ohm loads. Features 10-segment LED output meters; rear-panel power fuse; front-panel gain controls; toroidal power transformer; fan cooled; standard EIA rack-mountable. 25 continuous average W/ch from 20-20,000 Hz with no more than 0.02% THD into 8 ohms; 40 W into 4 ohms; S/N 104 dB; IMD 0.04%. 8 lb; 19" w x 1.75" h x 11.5" d$895

ADCOM

GFA-555 Power Amplifier
High-current amp able to drive 1-ohm loads with no current limiting and low feedback. Bridgeable for mono operation. 200 W/ch into 8 ohms; 350 W/ch into 4 ohms with <0.09% THD and <0.05% IMD; constant damping factor >100 20-20,000 Hz $700
GFA-555W. As above with white front panel$775
GFA-555S. With silver front panel $775
RM-7. Optional rack-mount adaptors for GFA-555..... $20/pr
RM-7W. As RM-7 in white..... $25/pr
RM-7S. As RM-7 in silver..... $25/pr

GFA-545 Power Amplifier
High-current amp able to drive low-imp, including 1-ohm loads. Features low-negative-feedback design; constant damping factor; toroidal transformer; no current limiting except for fuses; instantaneous distortion alert with distortion products higher than 1% at speaker outputs; direct-coupled design. 100 continuous average W/ch from 20-20,000 Hz into 8 ohms with no more than 0.09% THD, 150 W/ch into 4 ohms; IMD 0.008%. 17" w x 5.5" h x 12.5" d; 25 lbs . $480
GFA-545W. As above with white front panel$550
GFA-545S. With silver front panel $550
RM-5. Optional rack-mount adaptors for GFA-545..... $20/pr
RM-5W. As RM-5 in white..... $25/pr
RM-5S. As RM-5 in silver..... $25/pr

GFA-535 Power Amplifier
High-current amp able to drive low-imp loads. Features low-negative-feedback design; constant damping factor; hookup for 2 sets of speakers; instantaneous distortion alert with distortion products higher than 1% at speaker outputs; direct-coupled design; separate power transformers for each ch. 60 continuous average W/ch from 20-20,000 Hz into 8 ohms with no more than 0.09% THD, 100 W/ch into 4 ohms; IMD 0.008%. 17" w x 3.25" h x 12.5" d $300
GFA-535W. As above with white front panel$375
GFA-535S. With silver front panel $375
RM-3. Optional rack-mount adaptors for GFA-535..... $20/pr
RM-3W. As RM-5 in white..... $25/pr
RM-3S. As RM-5 in silver..... $25/pr

a/d/s/

High-Current 150-W/ch Power Amp
Designed for wide bandwidth and high current; all discrete transistors; polypropylene capacitors; metal-film resistors; 10 bipolar output devices per ch; open-loop bandwidth of <100 MHz to avoid rate limiting and stability with complex speaker

loads; toroidal transformers for low noise and high current; drives 2 pairs of speakers; power and speakers switched from a/d/s/ CC4 control center or R4 receiver; bridgeable; clipping LED's. 150 W/ch into 4 or 8 ohms; 250 W into 1 ch. 17.5" w x 2.8" h x 14.8" d; 27 lb $999

APT

A1 Power Amplifier
Power amp with imp-adjust indicator, signal indicators, overload indicators, output protection, overload protection. Features 100 continuous average W/ch from 20-20,000 Hz with no more than 0.03% THD into 8 ohms; FR 10-30,000 Hz ± 0.25 dB; S/N 110 dB; dynamic headroom 3 dB; slew factor >10; IMD 0.006%; crosstalk between channels <70 dB at 1,000 Hz; dynamic range >103 dB; 16.9" wide x 3.1" high x 10.2" deep; 22 lb $748

AUDIO DYNAMICS

B200 Configurable Power Amplifier
Configurable 2-/3-/4-channel power amplifier with individual left/rear, left/front, right/rear, and right/front volume controls and speaker on/off switches. Features oversized power display with front/rear display switches; direct input. Power output into 2 channels: 260 W/ch into 8 ohms, 300 W/ch into 4 ohms. Power output into 4 channels: 90 W/ch into 8 ohms, 120 W/ch into 4 ohms; FR 20-20,000 Hz ± 0.25 dB $999

AUDIO RESEARCH

D79C 75-W/ch Vacuum-Tube Power Amplifier
High-Definition stereo power amp with patented cross-coupled circuit. 75 continuous average W/ch from 20-20,000 Hz with no more than 1% THD into 8 ohms; FR 20-20,000 Hz ± 1 dB; S/N 90 dB; slew rate 10 V/μsec; IMD 0.5%; 19" w x 10.5" h x 17.5" d; 120-lb shipping weight $6,000

D250 240-W/ch Vacuum-Tube Power Amplifier
High-Definition power amp with controlled turn-on, warm-up for maximum power-tube life. Features patented cross-coupled circuit. 240 continuous average W/ch from 20-20,000 Hz with no more than 1% THD into 8 ohms; FR 20-20,000 Hz ± 1 dB; S/N 90 dB; slew rate 25 V/μsec; IMD 0.1%; 19" w x 10.5 h x 21" d; 155-lb shipping weight $6,990

M300 Mono 300-W Power Amplifier
Hybrid design with field-effect transistors (for front end) and vacuum tubes (in output stage); cross-coupled circuit; front-panel replaceable line and screen voltage fuses with LED indicators; 2 integral low-noise cooling fans (switchable for "Hi" or "Lo"); standby switch for warmup or interruptions; auto muting for silent shutdown; gold-plated inputs connect ground before hot; output taps for 1, 2, 4, or 8 ohms; front and rear handles. 300 minimum continuous W from 16-25,000 Hz with −0.051% THD into 8 ohms; power at clipping 330 W; FR 10-60,000 Hz −3 dB; S/N 90 dB; slew rate 25 V/μsec; 19" w x 10.5 h x 16" deep; 110-lb net, 126-lb shipping weight $6,990

D115 100-W/ch Vacuum-Tube Power Amplifier
High-Definition® power amp with controlled turn-on, warm-up for maximum power-tube life. Features patented cross-coupled circuit; front-panel fusing for line and screen. 100 continuous average W/ch from 20-20,000 Hz with no more than 1% THD into 8 ohms FR 20-20,000 Hz ± 1 dB; S/N 90 dB; slew rate 15 V/μsec; IMD 0.1%; input imp sens 1.1 V for rated output; input imp 75 kohms nominal; noise <90 dB below rated power, broadband-unweighted. 19" w x 7" h x 16.5" d; 80-lb shipping weight $2,995

M100 100-W/ch Mono Tube Power Amplifier
Basic power amp with auto servo DC balance, front-panel bias adjustment and indication. 100 continuous average W/ch from 20-20,000 Hz with no more than 1% THD into 8 ohms; FR 2-60,000 Hz +0/−3 dB; S/N 90 dB; dynamic headroom <1 dB; slew rate 15 V/μsec; IMD 0.2%; input sens 0.7 V rms for 100 W. 19" W x 7" h x 18.3" d; 53 lb $2,495

D70 60-W/ch Vacuum-Tube Power Amplifier
High-Definition® vacuum-tube power amp with continuous turn-on, warm-up for maximum power-tube life. Features patented cross-coupled circuit; front panel fusing for line and screen. 60 continuous average W/ch from 20-20,000 Hz with no more than 1% THD into 8 ohms; FR 20-20,000 Hz ± 1 dB; S/N 90 dB; slew rate 12 V/μsec; IMD 0.1%; input sens 0.95 V for rated output; input imp 75 kohms nominal; noise 90 dB below rated power, broadband-unweighted; 19" w x 7" h x 14.5" d; 63-lb shipping weight $1,995

D120 120-W/ch Solid-State Power Amplifier
High-Definition solid-state stereo power amp with Analog Module technology, unique linear output circuit. Stable under any load condition. Features internal bridging switch for mono operation; power supply fuse on front panel; fuse-failure LED indicator. Output power 120 W/ch into 8 ohms, 10-20,000 Hz at <0.25% THD; FR 1.2-75,000 Hz ± 1 dB; power bandwidth 0.6-100,000 Hz −3 dB; input sens/imp 1.5 V rms/60k ohms; harmonic distortion <0.004% at 1,000 Hz, 1 W; IMD <0.035% at rated power; slew rate 40 V/μsec; rise time 2 μsec; damping factor 300, 10-20,000 Hz; power consumption 1,000 W max; 19" w x 10.5" D x 5.25" H; 50-lb shipping weight $1,995

Wood Cabinets
For Audio Research components.
OC-4. Light oak. $125
WC-4. Walnut. $125

B & K COMPONENTS

PRO-600 250-Watt Power Amplifier
High-powered amp with fan-cooled driver stage. 250 continuous average W/ch from 20-20,000 Hz with no more than 0.09% THD into 8 ohms, 400 W into 4 ohms; FR 5-45,000 Hz ± 3 dB; S/N 95 dB; dynamic headroom 0.1 dB; slew rate 15 V/μsec; IMD 0.09%; bridgeable to 800 W. 19" w x 6" h x 15" d; 40 lb $1,295

EX-442 Dual-Mono Power Amplifier
Dual-mono power amp with gold-plated input and output connectors. 200 continuous average W/ch; FR 5-45,000 Hz ± 3 dB; S/N 95 dB; dynamic headroom 0.5 dB; slew rate 15 V/μsec; IMD 0.09%; 300 W into 4 ohms; 42-ampere peak-to-peak current capability. 19" w x 6" h x 15" d; 35 lb $895

ST-202 PLUS Power Amplifier
Power amp designed to deliver high wattage to speakers. 200 continuous average W/ch from 20-20,000 with no more than 0.9% THD into 8 ohms; dynamic headroom 1.8 dB; S/N 95 dB; slew rate 11 V/μsec; IMD 0.09%. 19" w x 6" h x 15" d; 30 lb $649

ST-202 150-Watt Power Amplifier
Power amp with gold-plated connectors for driving 8- and 4-ohm loads. 150 continuous W/ch from 20-20,000 Hz with no more than 0.9% THD into 8 ohms; FR 5-45,000 Hz ± 3 dB; S/N 90 dB; dynamic headroom 1.5 dB; slew rate 11 V/μsec; IMD 0.09%; 200 W into 4 ohms $595

ST-140 Class A Power Amplifier
Power amp with Class A design up to output stage. 100 continuous average W/ch from 20-20,000 Hz with no more than 0.09% THD into 8 ohms, 100 W into 4 ohms; FR 5-45,000 Hz ± 3 dB; S/N 90 dB; dynamic headroom 1.4 dB; slew rate 11 V/μsec; IMD 0.09% $440

B & W LOUDSPEAKERS

MPA810 Mono Power Amplifier
Mono power amp with MOSFET circuitry. Bridge-mode configuration cancels harmonic distortions, loads the supply symmetrically, eliminates heavy speaker return currents in ground circuit. Passive heatsinks progressively assisted by DC fan as temp rises. Features 30-segment output-voltage display

and clipping indicator. 650 continuous average W/ch from 20-20,000 Hz into 8 ohms with no more than 0.006% THD, 1,110 W into 4 ohms; 200-ms dynamic power 850 W; dynamic headroom 1.3 dB; S/N 107 dB; slew rate 60 V/μs; IMD 0.006%; peak current ± 60 amperes; bandwidth 0-100,000 Hz −2 dB. 11" w x 9.25" h x 17.5" d; 44 lb $3,500

BEDINI

100/100-1 MEG Power Amplifier
Class A output operation. 100 W/ch continuous into 8 ohms, 200 W into 4 ohms. THD 0.015%; IMD 0.025%; FR 1-100,000 Hz; high-level sens 500 mV; 68 lb $4,000

250/250 MK II 247.5-W/ch Power Amplifier
Class A output operation. 247.5 continuous average W/ch into 8 ohms, 495 W into 4 ohms. THD 0.1%; IMD 0.25%; FR 10-150,000 Hz; high-level sens 1,500 mV; 42 lb $2,500

100/100 MK II 100-W/ch Power Amplifier
Class A output operation. 100 W/ch continuous into 8 ohms, 200 W into 4 ohms. THD 0.1%; IMD 0.1%; FR 1-150,000 Hz; high-level sens 500 mV; 38 lb $2,000

150/150 MK II 145-W/ch Power Amplifier
Class A/B output operation. 145 W/ch continuous into 8 ohms, 290 W into 4 ohms. THD 0.1%; IMD 0.1%; FR 1-100,000 Hz; high-level sens 500 mV; 22 lb $1,000

BELLES RESEARCH

Belles 400 Stereo Power Amplifier
Solid-state power amplifier with dual complementary circuitry and dual-mono power supply. Features van den Hul cable wiring; Tiffany connectors; high-quality capacitors and resistors; toroidal power transformer. 200 continuous W/ch from 20-20,000 Hz with no more than 0.05% THD into 8 ohms; dynamic headroom 1.4 dB; slew rate 200 V/μs; 50 lb; 17" w x 6" h x 16" d $1,495

Belles 250 Stereo Power Amplifier
Solid-state power amp with dual complementary circuitry. Features van den Hul silver mono-crystal wiring; Tiffany connectors; high-quality ca-

SAUL MARANTZ, JOHN CURL AND LINEAGE

Three decades of leadership in American audio electronics

Perhaps no man can be better said to represent the philosophy of excellence in audio than Saul Marantz. Many audiophiles and journalists consider him the father of high performance audio. The electronic components he created during the 1950's and 60's are considered classics—respected and in demand in the U.S., Europe and Japan.

In the 1970's, when Saul Marantz was introducing the first Phased Array loudspeaker, a young electronics designer named John Curl was gaining international recognition for his innovative solid state electronics. These designs were also destined to become classics.

Today, Saul Marantz and John Curl have joined together in a new endeavor—one whose name, Lineage, reflects not only a distinguished history, but also a future of continued leadership in the American audio industry.

To create new classics for the 1980's and 90's, Lineage has brought together a multi-generational group of talented audio professionals. Their design brief is startlingly simple: To develop quality products of lasting value.

The CP 100 Control Preamplifier, shown above, is the first of these new classics. The CP 100 employs an innovative all-F.E.T. circuit topology and precision parts to assure true audiophile sound quality. It also offers a full complement of features, ease of operation and an integrity of construction that will provide years of musical pleasure.

Lineage components are made available through a network of experienced audio/video specialists. They are knowledgeable professionals who offer quality products, proper demonstration facilities and a commitment to after-sale service and support.

The first Lineage products will be available in late 1987. We hope that you'll take the opportunity to audition Lineage, the new audio company with three decades of experience.

Lineage

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PHASED ARRAY IS A REGISTERED TRADEMARK OF DAHLQUIST INC
CIRCLE NO 67 ON READER SERVICE CARD

pacitors and resistors; torodial power transformer. 125 continuous W/ch from 20-20,000 Hz with <0.05% THD and IMD into 8 ohms; dynamic headroom 1.8 dB; slew rate 200 V/μs; damping factor >175; 351 lb; 17" w x 6" h x 10" d . $995

BERNING

EA-2100 Tube Power Amplifier
All-triode stereo vacuum-tube power amp with low coloration. Features high-frequency power-conversion system for fully regulated power supply; low power consumption; 10- to 20-year tube life. 100 continuous average W/ch from 20-20,000 Hz with no more than 2% total distortion into 8 ohms; FR 7-70,000 Hz ± 1.5 dB; S/N 100 dB; dynamic headroom 2 dB; slew rate 15 V/μsec; input imp 100,000 ohms; output imp 4, 8, 16 ohms; negative feedback 8 dB; sens 1 V for 170 W out; clipping level (soft clipping) 170 W; 19" w x 5.25" h x 19" d; 40 lb $2,695
EA-230. As above except 30 W/ch, conventional power supply. 30 lb, 8" d $895

BOULDER AMPLIFIERS

Boulder 500 150-W/ch Power Amp
28 metal 250-W transistors for total of 7,000 W; convection cooling; LED meter at −40, −20, −6 dB; clip LED indicators for + and − voltage or current; gold-plated connectors (3-pin input D3F, RCA phono, 5-way output); conductive-plastic level controls; recessed panel controls; toroidal power transformer; shielded power cord; removeable rack-mount ears; screw-on feet; complete protection circuitry with visual indicators for short circuit, DC input offset, and thermal abuse; rear-panel switch-selectable input modes and multiple connectors. Optional plug-in Jensen input transformers. 150 W/ch into 8 ohms, 250 W/ch into 4 ohms, 500 mono into 8 ohms; peak power for 10 ms 150 W stereo into 8 ohms, 300 W stereo into 4 ohms, 600 W mono into 8 ohms; slew rate full V p-p closed loop 35 V/μs stereo; peak current for 10 ms >50 amperes; sep 95 dB at <1k Hz. 17.25" x 7" x 15.5" 51 lb $2,875
International version for 100/120/220/240 V AC, 50/60 Hz $3,040

Boulder 160 60-W/ch Power Amplifier
Totally discrete audio path with wide phase margain for stability; DC coupled with servo for minimal offset; 2 sequential stages; computer-matched components to 0.01%; conductive-plastic output level controls calibrated in dB; electronic speaker disconnect at power up/down; switch-selectable differential or unbalanced inputs; signal indicators for each ch at −20 dB; clip indicators for + and − voltage or current; short-circuit protection; gold-plated 3-pin RCA phono input connectors and 5-way binding-post output connectors; front-panel circuit breaker/power switch; convection cooling by large heatsink fins. 60 W/ch into 8 ohms, 80 W/ch into 4 ohms, 160 W mono into 8 ohms; peak power for 10 ms 60 W stereo into 8 ohms, 105 W stereo into 4 ohms, 210 W mono into 8 ohms; slew rate full V p-p closed loop 16 V/μms stereo; phase shift at 20,000 Hz 7°; sep 95 dB at 1,000 Hz, 70 dB at 10,000 Hz. 19" w x 3.5" h x 15.5 d; 40.5 lb $1,190

Boulder 100 34-W/ch Power Amplifier
2 sequential stages that yield 0.0015% THD for up to 2,000 Hz. Features totally discrete audio path with wide phase margain for stability; DC coupled with servo for minimal offset; conductive-plastic output level controls calibrated in dB; electronic speaker disconnect at power up/down; linear temp-tracking current-limit circuit for max power; switch-selectable differential or unbalanced inputs; signal indicators for each ch; clip indicators for + and − voltage or current; DC input offset cutout circuit; 3-pin, RCA phono, and phone input connectors; 5-way binding-post output connectors; toroidal power transformer; cooling by heatsink fins. 34 W/ch into 8 ohms $750

Speaker Cables
For use with Boulder power amps only.
CS06. 6 ft, stacking banana both ends, coaxial $74/pr
CS12. 12 ft, stacking banana both ends, coaxial $106/pr
CS25. 25 ft, stacking banana both ends, coaxial $176/pr
CS50. 50 ft, stacking banana both ends, coaxial $308/pr
NS01. Terminator pair for use at speaker . . $39

BRYSTON

6B 500-W/ch Power Amplifier
Mono power amp with high voltage and current. Max 120+ amperes instantaneously into 1 ohm; 100 W into 4 ohms with average current of 22 amperes; 1,000 W into 1 ohm with 3.5 amperes average; ground lift switch. 500 continuous W/ch from 20-20,000 Hz with <0.005% THD into 8 ohms; S/N 105 dB; slew rate >60 V/μsec; IMD 0.005%; 55 lb; 19" w x 5.75" h x 12" d . . $1,700

4B 200-W/ch Power Amplifier
Fully complementary class-AB power amp with bridging switch, 1,500-sq-in. heat-sink area; regulated power supplies to all voltage gain stages; ch sep back to line cord; red LED clipping indicator. Output power 200 W/ch, 800 W bridged into 8 ohms, 20-20,000 Hz at 0.01% THD; IMD 0.01%, 10 mW-200 W; noise −100 dB; slew rate

Peter Perreaux adds incredible power to his legendary musical accuracy.

The new PMF5550 with its huge power reserve meets the demands of the most sophisticated recordings you have or may encounter, regardless of speaker efficiency. Yet its ability to delineate the most delicate nuances is without peer.

Whether you judge a power amplifier by such basic objective measures as phase response, distortion, band width, rise time and the like, or simply trust your ears to make the judgement, the Perreaux PMF5550 cannot be overlooked.

Featuring significant, evolutionary advances in internal signal management, the PMF5550 Power Amplifier extends Peter Perreaux's tradition of uncompromising excellence.

Make an appointment for your own personal exploration of this powerful new world at your Perreaux dealer, or write for details today.

**500 watts RMS per channel, continuous into 8 ohms, both channels driven, from 20Hz to 20kHz, at no more than 0.03% THD from 0.25 watts to rated output.*

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60 V/μsec; power bandwidth 1-100,000 Hz; damping factor 500 at 20 Hz, 8 ohms; input sens/imp 1.25 V/50k ohms; 19" w x 13.5" d x 5.25" h $1,500

3B. Similar to 4B except 100 W/ch, 400 W bridged; input sens/imp 1 V/50k ohms; 500-sq-in. heat-sink area; 9" D $975

2B. Similar to 3B except 50 W/ch, 200 W bridged; input sens/imp 0.75 V/50k ohms; 250-sq-in. heat-sink area; 19" w x 10" d x 3.5" h$550

4-Way Switch Box
No active components; designed for high-current applications. For Bryston equipment only$195.00

CAMBRIDGE AUDIO

A75 Power Amplifier
Separate power amp with power-on switch only. FR 5-50,000 Hz −1 dB; S/N >100 dB; THD 0.5%. 17.5" w x 2.5" h x 11" d; 21 lb. Wood side panels included $599

CARVER

M-1.5t 400-W/ch Power Amplifier
Magnetic Field stereo power amp with LED dual peak-responding power displays, infrasonic and ultrasonic filters. 400 W/ch into 8 ohms; dynamic headroom/ch 600 W at 4 and 8 ohms; 16 lb$899

M-500t 250-W/ch Power Amplifier
Stereo power amp with Magnetic Field circuitry in slim cabinet; peak-responding power meters; cool operation; annodized brushed aluminum in dark pewter finish. 250 W/ch into 8 ohms; slew rate 40 V/μsec $629

M1.0t 200-W/ch Power Amplifier
Magnetic Field amplifier with long-term, high headroom and dual peak-responding power LED's. Features electronic protection; sonic transfer modification. 200 W/ch into 8 ohms; dynamic headroom 3 dB; slew rate 200 V/μs. 19" w x 3.5" h x 10.5" d; 12 lb..... $499

M400t 200-W/ch Power Amplifier
Stereo power amp with Magnetic Field Circuitry that eliminates oversize heat sinks. Features dual vertical LED peak-level display; dark pewter finish. 200 W/ch into 8 ohms; slew rate 40 V/μsec; 6.75" w x 6.75" h x 6.75" d..... $499

M200t 120-W/ch Power Amplifier
Magnetic Field power amp produces 120 W/ch into 8 ohms. Dark pewter finish; LED's indicate power and use of speaker-protection circuitry. 17.3" w x 9" d x 2.55" h; 10.25 lb $399

Z-1 Wide-Band Z Coupler
Imp-matching device enables Carver Magnetic Field power amp to be used with receiver or integrated amp. Receiver or integrated amp outputs drive power amp through Z-1 coupler, which presents an optimum noninductive load..... $49

CELLO

7000-00 Performance Amplifier Set
2 mono amps (left and right) and 2 mono supplies (left and right) for stereo; power output section has 40 output devices per ch $12,500

Master Supply
120 V AC $2,250

CONRAD-JOHNSON

Premier One Vacuum-Tube Power Amp
Power amplifier using vacuum tubes and low-noise precision parts in audio circuitry; LED bias indicators. Output power 200 W/ch into 4, 8, or 16 ohms; S/N 90 dB $4,800

Premier Five Vacuum-Tube Mono Power Amp
Low-imp power supplies and extensive use of polystyrene capacitors; LED bias indicators. 200 W into 8 ohms; S/N 94 dB; 19" w x 9" h x 20.5" d; 90 lb $3,000

Premier Four. Similar to Premier Five except 100 W $2,950

MV50. Similar to Premier Five except stereo, 50 W/ch into 8 ohms; S/N 94 dB; 40 lb $1,485

COUNTERPOINT

SA-4 130-W/ch Power Amplifier
Power amp with 130 continuous average W/ch from 20-20,000 Hz with no more than 0.2% THD into 8 ohms; S/N 92 dB; dynamic headroom 2 dB; IMD 0.65%; 19" w x 6.7" h x 19" d; 60 lb$5,225

SA 20/20 600-W/ch Power Amplifier
Mono hybrid power amp with tube front end and MOSFET output stage. Features no overall loop feedback; warm-up and shut-off auto speaker muting. Includes vacuum-tube rectification. 600 continuous average W/ch from 20-20,000 Hz into 8 ohms with no more than 0.5% THD, 988 W into 4 ohms, 1,500 W into 1 ohm; 20-ms peak amperage into 0.1 ohm 50 amperes; S/N 84 dB; slew rate 0.6 V/μ; IMD 0.02%. 19" w x 6.7" h x 19" d; 55 lb ea $3,990/pr

SA 20 Hybrid Power Amplifier
Hybrid power amp with tube front end and MOSFET output stage. Features no overall loop feedback; warm-up and shut-off auto speaker muting; internal switching to operate as a bridged mono amp for 3x power. Includes vacuum-tube rectification. 220 continuous average W/ch from 20-20,000 Hz into 8 ohms with no more than 0.5% THD, 420 W into 4 ohms, 1,000 W into 1 ohm; 20-ms peak amperage into 0.1 ohm 50 amperes; S/N 84 dB; slew rate 0.6 V/μ; IMD 0.02%. 19" w x 6.7" h x 19" d; 55 lb $1,995

SA-12 Hybrid Power Amplifier
Hybrid power amp with tube front end and MOSFET output stage. Features no overall loop feedback; warm-up and shut-off automatic speaker muting. 85 continuous average W/ch from 20-20,000 Hz with no more than 1% THD into 8 ohms; FR 5-100,000 Hz ± 0.2 dB; S/N 92 dB; dynamic headroom 2 dB; channel-to-ch sep >85 dB from 100-10,000 Hz; 19" x 4.5" x 12.5"... $995

DB SYSTEMS

DB-6A 40-W/ch Power Amplifier
Stereo power amp able to drive 1-ohm loads. Features 12-dB/octave infrasonic filter; peak-clipping LED's; electronic clamp. Output power 40 W/ch continuous into 8 ohms from 20-20,000 Hz at 0.003% THD; THD 0.0008% at 1,000 Hz; IMD <0.002%; FR 20-40,000 Hz +0/−1 dB; input sens/imp 1 V/50 kilohms; S/N 112 dB at 1 V A-wtd; slew rate 15 V/μs; damping factor >400, 20-1,000 Hz. 4.9" h x 16" w x 12.8" d $750

DB-6A-M. Similar to DB-6A except bridged mono amp at 140 W continuous with 0.008% THD; slew rate 30V/μsec $750

19" Rack adaptor $55

Mono conversion of DB-6A to DB-6A-M .. $39

DB-6A-M(2). Similar to DB-6A-M except pair of mono amplifiers $1,450

dbx

BX1 Configurable Power Amplifier
Configurable 2-/3-/4-channel power amplifier with 3 sets of fuses and complementary circuitry throughout. Features high-quality film capacitors; 8 x 250-W high-speed bipolar devices/ch; 2 x 3,200 VA toroidal transformers with 2 taps each; separate rectifiers for each ch; ± 55-V power-supply rails. Contains no fans or limiting circuitry. Quietly shuts down under thermal stress. Power output into 2 channels: 400 W/ch into 8 ohms, 650 W/ch into 4 ohms, 800 W/ch into 2 ohms, 1,400 W/ch into 1 ohm. Power output into 4 channels: 100 W/ch into 8 ohms, 200 W/ch into 4 ohms, 325 W/ch into 2 ohms, 400 W/ch in 1 ohm; slew rate 200 V/μS $2,500

DENNESEN ELECTROSTATICS

Antares II 75-W/ch Power Amplifier
MOSFET power amp. 75 continuous average W/ch from 20-20,000 Hz with no >0.1% THD into 8 ohms; FR 10-100,000 Hz ± 0.1 dB; S/N 90 dB; dynamic headroom 3 dB; slew rate 30 V/μs; IMD 0.1%. 19" w x 5.25" h x 8" d; 30 lb $595

Orion. Same as above except 150 W mono$1,500

DENON

POA-3000Z 250-W/ch Power Amplifier
Features dual super non-NFB circuitry; 4 large-capacity high-speed power transitstors; floating load circuitry; self diagnostic display; CD direct input terminals. 250 continuous average W/ch from 20-20,000 Hz with no more than 0.008%

THD into 8 ohms; FR 1-300,000 Hz +0, −3 dB; S/N 123 dB A-wtd; dynamic power 315 W + 315 W (8 ohms), 585 W + 585 W (4 ohms), 900 W + 900 W (2 ohms); slew rate ± 500 V/μsec; IMD 0.0015% $2,400

POA-6600 250-W Mono Power Amplifier
Mono power amp with Dual Super Non-NFB circuit for high-speed signal transmission. Features pure current power supply; separate power supply block chassis; Cannon-type balanced input connector; conventional RCA input jack with selector switch; front-panel level control; extra-large speaker terminals; peak indicators; high-speed reset-type protection circuit; remote power on/off switching from DAP-5500 or PRA-1100 preamps. 250 W min rms into 8 ohms from 20-20,000 Hz with no more than 0.02% THD; dynamic power 800 W at 1 ohm; intermodulation distortion <0.002%; signal-to-noise ratio 123 dB; slew rate ±500 V/μsec $700

POA-2200 200-W/ch Power Amplifier
Features unity-current interface; twin pure-current power supply; dual super non-NFB; direct CD input; 200 W/ch..... $675

DISCRETE TECHNOLOGY

Distech LSII 100 W/ch Power Amplifier
Power amp with MOSFET output and Distech AC power cable. 100 continuous average W/ch from 20-20,000 Hz into 8 ohms with less than 0.95% THD, 200 W into 4 ohms; 200-millisecond dynamic power 200 W; dynamic headroom 3.2 dB; S/N 90 dB below 10-watt output; slew rate 40 V/microsecond; intermodulation distortion <0.09%. 16" w x 5" h x 14" d; 25 lb..... $950

DNM BY MUSIC HALL

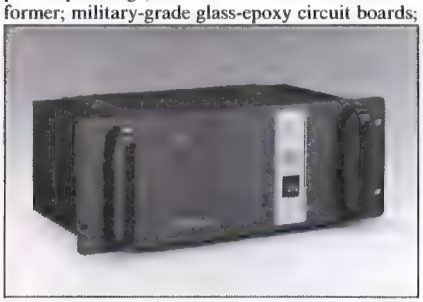
Gem 30-W/ch Power Amplifier
Star-Earth technology; MOSFET's; nonmetal case; Filmcap capacitors; 30 W/ch $1,600

ELECTROCOMPANIET BY MUSIC AND SOUND IMPORTS

Ampliwire Power Amps
All Electrocompaniet power amps are Class AB and feature thermal shutoff safety filter in output stage for undistorted use with any type of speaker.
200. Inverts phase. 150 W/ch into 8 ohms; 270 W/ch into 4 ohms; FR 0-100,000 Hz; THD 0.003%. 45 lb. Approx $2,995
100. Does not invert phase. 100 W/ch into 8 ohms; 180 W/ch into 4 ohms; FR 0-100,000 Hz; THD 0.003%. 40 lb. Approx $1,995
60. Does not invert phase. 75 W/ch into 8 ohms; 135 W/ch into 4 ohms; FR 0-100,000 Hz; THD 0.004%. 32 lb. Approx $1,295

FORTÉ AUDIO

Model 1 40-W/ch Power Amplifier
Dual-channel, noninverting, complementary-symmetry amplifier operates in the pure class A mode throughout all stages. Features direct-coupled input stage; custom-wound toroidal transformer; military-grade glass-epoxy circuit boards;



gold-plated connectors. 40 W/ch at 0.1% THD into 8 ohms, 70 W/ch at 0.2% THD into 4 ohms from 20-20,000 Hz; FR 1-100,000 Hz ± 3 dB; slew rate 30 V/μsec; input imp 47 kilohms; output imp 0.02 ohms at 1,000 Hz; output current 30 amp peak; output noise <300 μV. 19" w x 7" h x 12" d $950

FOSGATE

M-60 Mono Amplifier
Mono amp designed for use in A/V system. Can be used for center front channel applications. 2 can be used for stereo compact complementary/symmetry output stage. Low TIM and TID. Includes gain adjust and clipping indicator. 45 continuous average W from 20-20,000 Hz into 8 ohms with no more than 0.1% THD, 60 W into 4 ohms; 200-ms dynamic power 65 W; dynamic headroom 1.5 dB; S/N 95 dB; slew rate 15 V/μs; IMD 0.1%. 6.56" wide x 3.56" high x 6.56" deep; 5 lb $149

HAFLER

XL-600 MOSFET Power Amplifier
Excelinear near-zero-phase shift circuit with J-FET double differential push-pull cascoded 'tube-like' input and current-mirroring 2nd stage. 16 MOSFET outputs; direct coupled; stable into all loads; high capacitance (72,000 mfd); Excelinear speaker tweaking adjustment; gold inputs; mono bridging switch; variable speed DC fan cooling. 305 W/ch into 8 ohms at <0.05% THD, 20-20,000 Hz; <0.04% IMD from 1-305 W; 450 W/ch into 4 ohms; 900 W mono into 8 ohms; input sens 2.4 volts for 305 W at 8 ohms; FR 10-50,000 Hz ± 0.1 dB; S/N >100 dB at 305 W; 7" h x 19" w x 13" d; 50 lb; Tentative price assembled $995

DH-500 Power Amplifier
Stereo power amp designed to deliver >255 W/ch with <0.025% distortion into 8 ohms; >400 W into 4 ohms (can be bridged, using optional bridging kit, to deliver >800 W into 8 ohms). Employs MOSFETs on compact enclosed multispeed fan-cooled heat sink. Fuses and relay protect speakers against turn-on thumps or DC shifts; self-protective capability of the MOSFETs eliminates need for amp protection. Factory assembled $850
Kit $725

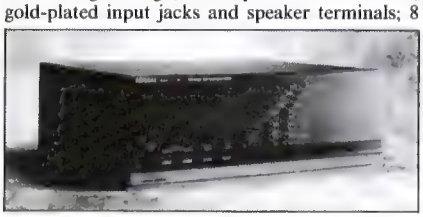
XL-280 MOSFET Power Amplifier
J-FET double differential input and 12 MOSFET output. Excelinear speaker tweaking adjustment; gold inputs; mono bridging switch; speaker protection fuses. 145 W/ch into 8 ohms; <0.05% THD, 20-20,000 Hz; <0.04% IMD; S/N >100 dB; FR 10-50,000 Hz ± 0.1 dB; 200 W/ch into 4 ohms; 400 W into mono. 5.25" h x 17" w x 10.5" d; 27 lb; assembled $600
Kit $525

DH 220 Power Amplifier
Direct-coupled bridgeable MOSFET power amp stable into any load. 115 continuous average W/ch from 20-20,000 Hz with no more than 0.02% THD into 8 ohms; typical THD at 115 W into 8 ohms 0.0015% at 1,000 Hz; FR 6-60,000 Hz ± 0.5 dB; S/N 100 dB; dynamic headroom 2 dB; slew rate 30 V/μsec; IMD <0.005%; damping factor 300 to 1,000 Hz into 8 ohms; 16" w x 5.12" h x 10.5" d; 26 lb. Assembled $500
Kit $400

DH 120 Power Amplifier
Stereo power amp stable with L and R level controls, stereo/mono switch, AUX speaker outputs which feed a matrix signal for ambience effects. 62 continuous average W/ch from 20-20,000 Hz with no more than 0.006% THD into 8 ohms; FR 10-40,000 Hz ± 0.5 dB; S/N >100 dB; damping factor 219 to 1,000 Hz; sep 85 dB at 1,000 Hz; input imp 22k; slew rate 30 V/μsec; 15.75" w x 3.25" h x 9" d; approx 18 lb. Tentative price, assembled $375
Tentative price, kit $325

HARMAN KARDON

Citation Twenty-Two 200-W/ch Power Amp
Selectable high-current and high-voltage output; dual-voltage design; dual power transformers; gold-plated input jacks and speaker terminals; 8



130-W power transistors per ch; clipping indicators; LED power meters; anodized brushed aluminum blue/black finish with rubber trim. 200 W/ch into 8 ohms, 400 W bridged into mono; current capability ± 120 amps; neg feedback 12 dB; damping factor 120 into 8 ohms $895
Twenty-Four. Similar to above except 100 W/ch; current capability ± 60 amps; 4 130-W power transistors per ch; damping factor 75 into 8 ohms $595

HEYBROOK BY D'ASCANIO AUDIO

P-2 Power Amplifier
Hand-assembled power amp with toroidial transformer capable of 30-amp output. Features circuits designed with close-tolerance, high-quality compnents. Thick aluminum chasis acts a heat-sink over entire surface, equalizing temp within the case and maintaining a stable relationship between internal compnonents. 80 continuous average W/ch from 20-20,000 Hz into 8 ohms with no more than 0.05% THD, 120 W into 4 ohms; S/N 60 dB; IMD 0.05%; instantaneous peak current ± 30 A. 17" w x 4" h x 12" d; 18 lb $1,198

HITACHI

HMA120AVSW Power Amplifier
Power display of 10 LED's per ch. 120 W/ch into 8 ohms; 200-ms power 120 W. 14.5" w x 5" h x 13" d; 17.7 lb $250

JADIS by MADRIGAL

JA-200 160-W/ch Tube Power Amp
Pure Class A power amp with power capability and dynamic behavior to drive difficult loads with low distortion. 4 chassis (2 amps, 2 power supplies). 160 W/ch into 4 and 8 ohms . $12,750

JA-80 60-W/ch Tube Power Amp
Pure Class A; core of output transformer acts like solid core for high efficiency; 2 chassis. 60 W/ch into 4 and 8 ohms. 154 lb $8,300

JA-30 30-W/ch Class-A Power Amp
Dual-mono (2 chassis); each transformer hand built for symmetry in resistance and self-inductance of coils; transformer encapsulated for optimal self-damping and thermal stability. 30 W/ch into 4 and 8 ohms. 97 lb $4,300

JVC

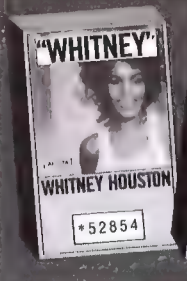
ML10 Power Amplifier
Power-cascode Super-A power amplifier. 160 continuous average W/ch from 20-20,000 Hz with no more than 0.002% THD into 8 ohms; FR DC-300,000 Hz +0, −3 dB; S/N 120 dB; IMD 0.002%; damping factor 200 (1,000 Hz 8 ohms). 18.12" w x 8" h x 16.44" d; 61.6 lb $2,100

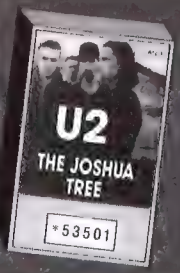
KENWOOD

Basic M2A Stereo Power Amplifier
Features Super Dynamic Linear Drive (DLD) dual-output power amplifier; low-impedance drive capability; dynamic power (EIA) 616 W/ch into 2 ohms; wide range FL peak power meters with selectable peak-hold and two hold times; Sigma Drive Type B; full circuit protection with thermostat-controlled fan cooling; 2 speaker pair selection; gold-plated input terminals; headphone jack; power indicator; muting relay. 220 continuous average W/ch from 20-20,000 Hz with no more than 0.004% THD into 8 ohms; damping factor 1,000 at 50 Hz. 17.31" w x 6.25" h x 14.69" d; 34.1 lb $650

Basic M1D Stereo Power Amplifier
Features Voltage Interface Gate with Dynamic Linear Drive (VIG-DLD) amplifier; low-impedance drive capability; dynamic power (EIA) 210 W/ch into 2 ohms; FL peak power meters; full

PRICES LISTED
are manufacturers' suggested retail prices
(also referred to as *list* prices);
actual selling prices are set by individual dealers.
All prices are subject to change without notice.





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*THE JUDDS 60363 HeartLand (RCA)	*HUEY LEWIS 54570 FORE! (Chrysalis)	*Parton, Ronstadt, Harris 14804 Trio (Warner Bros.)	*PAUL SIMON 72315 Graceland (Warner Bros.)
*JANET JACKSON 34526 CONTROL (A&M)	*MOTLEY CRUE 20196 Girls, Girls, Girls (Elektra)	*MADONNA 43811 TRUE BLUE (Sire)	*STEVE WINWOOD 53271 Back In The High Life (Island)
*WHITESNAKE 63629 (Geffen)	GEORGE STRAIT 63623 Ocean Front Property (MCA)	*LIONEL RICHIE 34541 Dancing On The Ceiling (Motown)	*PETER GABRIEL 14764 SO (Geffen)
*REBA McENTIRE 62110 Greatest Hits (MCA)	*THE CARS 53702 GREATEST HITS (Elektra)	POISON: Look What The Cat Dragged In 44402 (Capitol/Enigma)	JODY WATLEY 63769 (MCA)
*HERB ALPERT 63186 Keep Your Eye On Me (A&M)	*ITZHAK PERLMAN 15146 Mozart Concs. 3 & 5 (DG)	*HANK WILLIAMS, JR. 63517 HANK "LIVE" (Warner/Curb)	VAN CLIBURN: World's Favorite Piano Music 13500 (RCA)
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THE BEST OF NAT "KING" COLE 14432 (Capitol)	*WHITNEY HOUSTON 54381 (Arista)	*LINDA RONSTADT 54382 For Sentimental Reasons (Asylum)	*ELVIS: The Memphis Record (23 hits) 54097 (RCA)
*ALABAMA 53788 THE TOUCH (RCA)	The Best Of FRANK SINATRA 43804 (Capitol)	*AMY GRANT 44643 The Collection (Gt. Hits) (A&M)	ELTON JOHN 31711 GREATEST HITS, Vols. 1 & 2 (MCA)
*BRUCE HORNSBY 63918 & The Range: The Way It Is (RCA)	*NIGHT RANGER 60635 BIG LIFE (Momcamel)	PETER CETERA 63723 Solitude/Solitaire (Warner Bros.)	BEACH BOYS: Made In U.S.A. (25 hits) 64143 (Capitol)
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*TINA TURNER 13333 BREAK EVERY RULE (Capitol)	*Vladimir Horowitz 62507 HOROWITZ IN LONDON (RCA)	*DIRE STRAITS 14734 BROTHERS IN ARMS (Warner Bros.)	PRINCE 61991 Sign "O" The Times (Warner/Paisley Park)
*GALWAY & MANCINI 51758 IN THE PINK (RCA)	*RANDY TRAVIS 74046 Storms Of Life (Warner Bros.)	MOZART 34528 AT THE MOVIES (RCA)	
*SAMMY HAGAR 60152 (Geffen)	*BILLY IDOL 54108 Whiplash Smile (Chrysalis)	*PHIL COLLINS 20771 NO JACKET REQUIRED (Atlantic)	
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City _____ State _____ Zip _____

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CHECK ONE: 1 ☐ Classical 2 ☐ Pop/Soft Rock

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circuit protection; Sigma Drive type B; two speaker pair switching; power indicator; headphone jack; muting relay. 125 continuous average W/ch from 20-20,000 Hz with no more than 0.005% THD into 8 ohms; damping factor 1,000 at 100 Hz. 17.31" w x 5.69" h x 13.31" d; 21.5 lb $410

KM-206 Stereo Power Amplifier
Features dual-range LED power meters; speaker A/B selector; headphone jack; remote controlled through KC-206 preamp. 150 W/ch min rms into 8 ohms from 20-20,000 Hz with no more than 0.03% THD. 16.56" w x 4.81" h x 10.56" d; 18.7 lb $350

KM-106 Stereo Power Amplifier
Features dual-range LED power meters; speaker A/B selector; headphone jack; remote controlled through KC-206 preamp. 125 W/ch min rms into 8 ohms from 20-20,000 Hz with no more than 0.03% THD. 16.56" w x 4.81" h x 10.56" d; 17.4 lb $300

KINERGETICS

KBA-202 Gold Series 200-W/ch Power Amp
Zero overall feedback (feedback in output stage only); fully cascoded J-FET input stage; dual mono construction; DC servo control to eliminate capacitors in signal path; 24 output transistors; poower supply for front end of each ch; 4 toroidal transformers; 300-joule power supply; military-grade glass circuit boards with 2-sided ground plane and 20-oz copper traces; AB output operation; does not invert phase; hysteresis-distortion cancelling circuit. 200 W/ch into 8 ohms, 400 into 4; headroom 3 db; input imp 50,000 ohms; slew rate 100 V/μsec; voltage gain 30 (absolute); power bandwidth 1-400,000 Hz; small-signal bandwidth 1-1,000,000 Hz; 59 lb; 19" w x 7.5" h x 19" d $1,795

KBA-75 Gold Series 75-W/ch Power Amp
9-kVA power supply; dual-coil toroidal transformer; auto servo-controlled DC offset adjustment; constant current sources for Class A operation; high-power output transistors with wide linear region; no phase inversion; hysteresis-distortion cancelling circuit. 75 W/ch into 8 ohms, 150 into 4; headroom 3 db; input imp 50,000 ohms; slew rate 65 V/μsec; voltage gain 30 (absolute); power bandwidth 1-300,000 Hz; small-signal bandwidth 1-1,000,000 Hz; 45 lb; 19" w x 6" h x 16" d $1,295

KYOCERA

B-910 150-W/ch Power Amplifier
Class AB power amp with triple push-pull high-frequency power stages; ceramic base/chassis; DC configuration; large-cutless-core power transformer; large honeycomb heatsinks; direct and subsonic inputs. 150 continuous average W/ch 20-20,000 Hz with no >0.02% THD into 8 ohms; FR DC-200,000 Hz ± 3 dB at 1 W; S/N 120 dB; damping factor 150 (50 Hz); 200 W/ch into 4 ohms with 0.03% THD; power bandwidth 10-50,000 Hz; input sens 1.5 V (30 kilohm); 17" w x 8.25" h x 15.75" d; 59.5 lb $2,000

LAZARUS ELECTRONICS

H-1 Hybrid Power Amplifier
Pure (not sliding scale) Class A tube MOSFET hybrid power amp may be operated as a fully differential mono amp or as a stereo amp. May be configured (by dealer) as either Class A or Class A/B. 50 continuous average W/ch from 20-20,000 Hz into 8 ohms with no more than 0.2 THD, 100 W into 4 ohms; 200 ms dynamic power 600 W; dynamic headroom 3 dB, 8 ohms resistive; S/N 80 dB; IMD 0.2%; peak current 75 amperes. 19" w x 3.5" h x 16.5" d 35 lb $1,599

LINEAGE

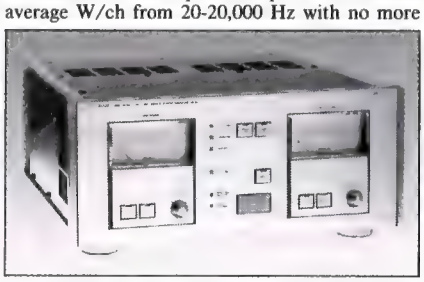
PA-200 Stereo Power Amplifer
Features all-discrete audio circuitry; full-complementary direct-coupled Filed-Effect transistor design; complementary differential inputs; Class A operaton in gain/driver stages; MOSFET output stages with Class AB1 operation; DC servo to eliminate all capacitors from audio stages; gold-plated input and output connectors; protection circuitry acting entirely outside of signal path; front-panel overload indicators. High-current ultra-stable design optimised for low distortin under rapidly changing speaker loads. Nominal rated power 100 W/ch into 8 ohms; 1-100,00 Hz bandwidth with no slew rate limiting. Matte silver with removable teak pedestal base. 17" w x 12" d x 6.36" h (with base), 5.25" h (without base) $1,650

LINN PRODUCTS BY AUDIOPHILE SYSTEMS

LK2 Stereo Power Amplifier
75 continuous average W/ch from 20-20,000 Hz; companion to LK1 preamp. 12.75" w x 3" h x 10.5" d; 19 lb $855

LUXMAN

M-05 Power Amplifier
Duo-Beta/S Class A power amp. 105 continuous average W/ch from 20-20,000 Hz with no more



than 0.025% THD into 8 ohms; FR 10-100,000 Hz ± 0.5 dB; S/N 120 dB; 18.12" w x 8.25" h x 17.25" d; 88.4 lb $3,300

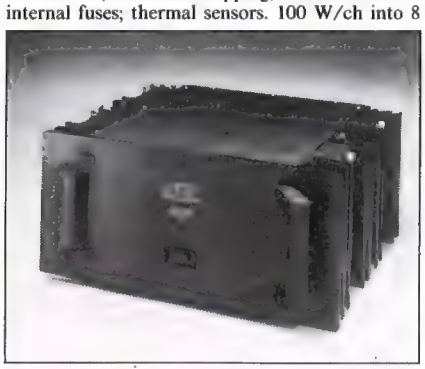
M-02 Power Amplifier
Duo-Beta/S power amp. 140 continuous average W/ch from 20-20,000 Hz with no more than 0.025% THD into 8 ohms; FR 10-100,000 Hz ± 1 dB; S/N 120 dB; 17.19" w x 5.56" h x 13.19" d; 31.9 lb $800

MARK LEVINSON BY MADRIGAL

No. 20 100-W/ch Mono Reference Amp
Class-A highly biased mono amp with fully regulated power to all audio stages; internal spike and surge suppression; RF filtering of raw AC from outlet to reduce noise; separated + and – supply rails each with their own toroidal power transformer, full-wave bridge rectification, and filter capacitors to prevent cross modulation between rails; electronic regulation to refine power used by signal-carrying circuits; 3 high-current devices to drive output stage; electronic protection against abuse; all gain stages controlled at clipping; balanced inputs with Camac connectors; Neutrik-XLR connector; internal switching to adjust for operation at 90 to 240 V AC. 100 W/ch into 8 ohms, 200 W into 4 ohms. 17.5" w x 8.25" h x 22" d; 90 lb. Faceplate also available in 19" width $10,200/pr

ML-3 200-W/ch Power Amplifier
Dual-mono power amp in single chassis utilizing only discrete circuitry; 2 independent power supplies, each of 1.2 KVA toroidal power transformer, 30-ampere bridge rectifier and 2 36,000 μF filter capacitors, for 240 joules of stored energy for each ch; 4 1,700-μF capacitors filter voltage gain stages; Class-A AB2 operation in output stage; protection system; gold-plated self-locking speaker connectors; Camac input connectors; selectable damping factor; hand-brushed black anodized front plate. 200 W/ch into 8 ohms, 400 W/ch into 4 ohms. 20 200-W, 15-ampere power transistors per ch produce, when pulsed, 52 V peak, at peak currents up to 52 amperes (2,704 W peak) per ch. 10.88" h x 19" w x 24.5" d; 116 lb$6,750

No. 23 Dual-Mono 100-W/ch Power Amp
2 separate mono amps in single chassis; AC mains filtering; film capacitors; surge limiting; 2 power supplies for each L and R ch; oxygen-free copper bars supply output stage with +84-V DC rails; triple bypassing; output supply capacitance of 146,000 μfarads and 2 1.2-KVA transformers produce 240 joules of stored energy; full-wave bridge rectifier; independent tracking for + and – rails; only bipolor devices in gain stages; inverting input for full balanced connection; 50-kohm imp through audio bandwidth; output stage operates in class AB; controlled clipping; external line and internal fuses; thermal sensors. 100 W/ch into 8



ohms, 200 into 4, 350 into 2; gain 26 dB; damping factor >700 (50 Hz ref to 8 ohms); 83 lb; 17.5" w x 8.5" h x 15" d (18" d with handles) ... $4,400

ML-9 100-W/ch Stereo Power Amp
All discrete circuitry; Class-A operation in all voltage gain and driver stages; Class AB2 operation in output stage. Power supply of 1.2 KVA toroidal power transformer, 30-ampere bridge rectifier and 2 36,000 μF filter capacitors, storing 230 joules of energy. 2 520 μF capacitors decouple and filter in voltage gain stages. Features gold-plated binding posts for output connections; Camac input connectors and selectable damping factor; hand-brushed black anodized front plate. 100 W/ch into 8 ohms, 200 W/ch into 4 ohms. 8 200-W, 15-ampere power transistors with massive power supply develop 58 V peak when pulsed, at peak currents up to 29 amperes (1,682 W peak) per ch. 8.75" h x 19" w x 13.36" d; 56 lb $3,500

ML-11 Stereo Power Amplifier
All discrete circuitry; Class-A operation in voltage gain and driver stages; Class AB2 operation in output stage. Power supply of 320 VA toroidal power transformer, 2 12-ampere bridge rectifiers, 4 10,000 μF filter capacitors, for separate rectification and 20 joules of energy storage for each ch. Six 200 W, 15 ampere power transistors per ch enable ML-11, when pulsed, to develop 25 volts peak, at peak currents up to 12.5 amperes (312.5 W peak) per ch. Optional externally programmable voltage-limiting circuit reduces voltage output to protect speakers; gold-plated binding posts for output connections and Camac input connectors; hand-brushed black anodized front plintoe. 50 W/ch into 8 ohms,100 W/ch into 4 ohms 140 W into 8 ohms bridged. 8.62" h x 19" w x 12" d; 25 lb $2,100

POWER AMPLIFIERS

McINTOSH

MC-2500 Stereo Power Amplifier
500 W/ch power amplifier with Power Guard circuit. Features patented McIntosh Sentry Monitoring circuit which constantly monitors the signal to the output transistors to protect them from damage; left and right channel gain control; speaker on/off switch; peak-reading, peak-locking power meters; meter range selector; headphone jack. Power output: 500 W/ch both channels driven from 20-20,000 Hz with less than 0.02% THD; IM <0.02% if instantaneous peak power output is less than 1,000 W/ch both channels driven; FR 20-20,000 Hz +0 −0.25 dB, 10-100,000 Hz +0.25 −1 dB; damping factor >30; input impedance 50,000 ohms; input sensitivity switchable, 0.75 or 2.5 V (level control provided for higher input voltages). Power Guard: THD not to exceed 2% with up to 20 dB overdrive at 1 kHz. Power Requirements: 120 V 50/60 Hz 0.7 to 22 amps, 15 amps UL/CSA. Standard 19″ rack mounting; 129 lb.....$3,495

MC-2250 Power Amplifier
250 W/ch stereo power amplifier. 94 lb..$2,495

MC-7270 Stereo Power Amplifier
270 W/ch power amplifier with Power Guard circuit. Features McIntosh autotransformer; left and right channel gain control; peak-reading, peak-locking power meters; meter selector. Power output: 270 W/ch both channels driven from 20-20,000 Hz with less than 0.02% THD; IM <0.02% if instantaneous peak power output is less than 600 W/ch both channels driven; FR 20-20,000 Hz +0 −0.25 dB, 10-100,000 Hz +0 −2 dB; damping factor >30; input impedance 20,000 ohms; input sensitivity switchable, 0.75 or 2.5 V (level control provided for higher input voltages). Power Guard: THD not to exceed 2% with up to 20 dB overdrive at 1 kHz. Power Requirements: 120 V 50/60 Hz, 13 amps. 16.2″ w x 7.13″ h x 14.5″ d; 82 lb.....$2,295

MC-2002 Stereo Power Amplifier
200 W/ch power amplifier with Power Guard circuit. Features McIntosh Sentry Monitor circuit; DC failure protection; power line surge protection; peak responding power meters. Power output: 200 W/ch into 8 ohms both channels driven from 20-20,000 Hz with less than 0.01% THD; IM <0.02% at any power level below rated power both channels driven; FR 20-20,000 Hz +0 −0.25 dB, 10-100,000 Hz +0 −3.0 dB; damping factor >100; input impedance 20,000 ohms; input sensitivity switchable, 1.4 or 2.5 V; IHF dynamic headroom 1.7 dB at 8 ohms. Power requirements: 120 V 50/60 Hz, 0.6-15 amps. 16.19″ w x 7.13″ h x 14.5″ d; 50 lb.....$1,850

MC-502 Stereo Power Amplifier
Compact power amp features 75 W/ch into 4 ohms, 50 W/ch into 8 ohms $1,200

MC-752 Stereo Power Amplifier
75 W/ch power amplifier with Power Guard circuit. Features McIntosh Sentry Monitor circuit; DC failure protection; power line surge protection; Power output: 75 W/ch into 8 ohms both channels driven from 20-20,000 Hz with less than 0.01% THD; IM <0.005% at any power level below rated power both channels driven; FR 20-20,000 Hz ± 0.25 dB; damping factor >40; input impedance 22,000 ohms; input sensitivity 1.4 V; IHF dynamic headroom 1.4 dB at 8 ohms. Power requirements: 120 V 50/60 Hz. 21 lb $895

MELOS AUDIO

TM-90 ST Power Amplifier
Stereo power amp with toroidal power transformer, regulated power supplies using tubes and transistors. Wide bandwidth output transformers; triple triode driver tubes; LED indicators. 80 W/ch; THD no more than 0.5%; FR 8-45,000 Hz ± 1.5 dB; S/N 85 dB; sens at rated power 1.5V. 17.5″ w x 7.5″ h x 13.5″ d; 50 lb.....$1,395

MOTIF BY CONRAD JOHNSON

Motif MS100 100-W/ch Power Amp
With MOSFET output stage; extensive use of large-value polystyrene capacitors. 100 continuous average W/ch from 20-20,000 Hz with no more than 0.1% THD into 8 ohms; FR 20-20,000 Hz ± 0.10 dB; S/N 100 dB; 19″ w x 7″ h x 18.5″ d; 45 lbs.....$3,250
MS50. Similar to MS100 except 50 W/ch $2,350

NAD

2200 (The Power Tracker™) Power Amplifier
Stereo/mono power amp. Features high voltage, high current design; bridgeable; new soft clipping circuit; audible clipping indicator on front panel. 100 continuous average W/ch from 20-20,000 Hz with no more than 0.03% THD into 8 ohms; FR 3-80,000 Hz +0, −3 dB; S/N >91 dynamic headroom +6 dB; slew rate >35 V/μsec; IMD <0.03%; 16.5″ w x 4.8″ h x 14.5″ d; 27.6 lb$548

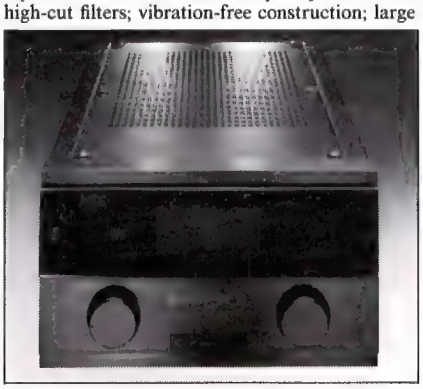
2155 Power Amplifier
Stereo/mono power amplifier with Soft Clipping circuitry. Features speaker-matching imp switch, bridging capability for mono operation. 40 amp current capability; 55 continuous average W/ch 20-20,000 Hz with >0.02% THD; dynamic headroom 3 dB; slew rate 20 V/μsec $348

NAKAMICHI

PA-7 Power Amplifier
Power amp utilizes Stasis topology. Features 700-W toroidal power transformer; 33,000 micro-Farad x 4 filter capacitors; dual rectifiers; 16 transistors per ch. 200 continuous average W/ch from 20-20,000 Hz with <0.1% THD into 8 ohms; FR 7-150,000 Hz +0, −3 dB; S/N >120 dB; dynamic headroom 1.7 dB; IMD <0.1%; output current capability 18 amps continuous (50 amps peak); dynamic output power 300 W/ch into 8 ohms; power bandwidth 5-50,000 Hz (8 ohms, 100 W, 0.1% THD); 17.12″ w x 7.88″ h x 16.56″ d; 59 lbs, 8 oz $1,750
PA-5. Similar to above but 100 W/ch. 17.12″ w x 5.31″ h x 14.5″ d; 35 lb, 4 oz $1,095

NEC

M-50 Monaural Power Amplifier
Single-channel power amp with 3 switch-selected inputs. Features variable-frequency low- and high-cut filters; vibration-free construction; large



FL power meter; separate circuit construction; industrial-grade twin-crossbar relays with gold-plated contacts; sculptured brass terminals; heavy-duty speaker terminals. Rated power output 50 W into 8 ohms from 20-20,000 Hz with 0.004% THD, 100 W into 4 ohms with 0.006% THD; dynamic power 240 W into 2 ohms, direct input; FR 5-300,000 Hz; S/N >115 dB (direct input). 8.26″ w x 4.72″ h x 14.87″ d; 18 lb.. $375

NIKKO AUDIO

Alpha 650 Power Amplifier
Power amplifier with 300 W/ch, 700 W strappable to mono at 8 ohms $1,700

Alpha 480 Power Amplifier
Features protection circuits with front-panel LED; 2 pairs of speaker outputs. 230 W/ch from 20-20,000 Hzinto 8 ohms with no more than 0.006% THaD; FR DC-100,000 Hz; S/N 120 dB. ... $900

Alpha 450 Power Amplifier
DC-configured high-speed nonswitching power amp with 220 W/ch rms $900
Alpha 280. Same as Alpha 480 with 130 W/ch..... $500

Alpha 230 Power Amplifier
Features DC servo high-speed non-switching circuitry. 120 W/ch into 8 ohms $470

Alpha 130 Power Amplifier
DC servo power amp with 100 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.03% THD $350

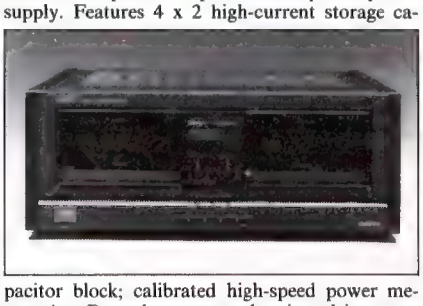
NOVA

DMA-300 Power Amplifier
Dual-monaural power amp with bi-polar circuitry. Features nonswitching design with heavy power supply regulation. 150 continuous average W/ch into 8 ohms from 20-20,000 Hz with no more than 0.02% THD; S/N 95 dB; dynamic headroom 2 dB; slew rate 40 V/μs; IMD 0.01%. 19″ w x 7″ h x 12″ d; 45 lb.....$1,995

ONKYO

Grand Integra M-510 Power Amplifier
Dual-mono power amp with real-phase power supply. Features ultra-high-current capability with any speaker system regardless of imp or efficiency; 3 separate power supplies (left, right, aux for lights, meters etc.); speaker-imp range down to 1 ohm; calibrated power meters accurate to 1 dB; A + B speaker systems; adjustable meter sens. 300 continuous average W/ch into 8 ohms from 20-20,000 Hz with no more than 0.005% THD; 500 W/ch into 4 ohms; 2-ms dynamic power 400 W into 8 ohms; S/N 120 dB; IMD 0.003%; dynamic power 750 W into 4 ohms, 1,300 W into 2 ohms, 2,100 W into 1 ohm. 20″ w x 10.5″ h x 21″ d; 165 lb $4,500

Grand Integra M-508 Power Amplifier
Dual-mono power amp with real-phase power supply. Features 4 x 2 high-current storage ca-



pacitor block; calibrated high-speed power meters; A + B speaker systems; low-imp drive capability; variable and direct inputs. 200 continuous average W/ch into 8 ohms from 20-20,000 Hz with no more than 0.003% THD; 200-ms dynamic power 265 W into 8 ohms; S/N 122 dB; IMD 0.002%; dynamic power 460 W into 4 ohms, 685

W into 2 ohms. 18.25" w x 7.25" h x 16.75" d; 55 lb $1,150

Integra M-504 Power Amplifier
Dual-mono power amp with real-phase power supply. Features peak-reading power meters; A + B speaker systems; low-imp drive capability; high-current output stage; heavy-duty 5-way banana-plug speaker connectors. 150 continuous average W/ch into 8 ohms from 20-20,000 Hz with no more than 0.003% THD, 240 W/ch into 4 ohms; S/N 120 dB; IMD 0.002%; dynamic power 190 W into 8 ohms, 360 W into 4 ohms, 480 W into 2 ohms. 17.12" w x 7.25" h x 16.75" d; 49 lb $800

PARASOUND

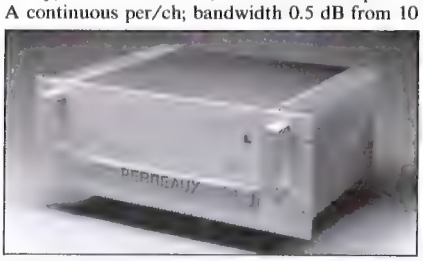
D/AS-1000 130-W/ch Power Amplifier
Digital/analog servo amp with voltage and current feedback; computer-switched dual-voltage power supply; 60-MHz output devices; switchable BTL operation (1,000 W mono into 2 ohms); 80,000-MFD power supply; LED indicators for peak over continuous power rating and operation of 2nd power-supply stage. Rack-mount extensions available. 130 W/ch into 8 ohms, 185 W into 4 ohms, 300 W into 2 ohms; 400-ms dynamic power 660 W into 2 ohms; dynamic headroom 6 dB; slew rate 90 V/μs. 17.25" w x 6" h x 12" d; 40 lb $650

HCA-800 80-W/ch Power Amp
High-current design; front-panel level controls; relay protection; rack mounts with optional kit. 36,000-MFD power supply; gold-plated input jacks. 80 W rms per ch; 250 W mono. 17.25" w x 3.5" h x 12" d; 25 lb $325

PERREAUX BY SIGNET

PMF5550 500-W/ch Power Amplifier
Features Class-A operation up to 50 W/ch. 500 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.03% THD; suitable for 4 ohm use; continuous current output 30 amps; FR 20-20,000 Hz ± 0.02 dB, 10-100,000 Hz ± 0.5 dB; ch sep 60 dB 20-20,000Hz; damping factor over 200 from 10-1000 Hz; input sens 1.5 volts rms for rated output at 100 Hz. 19" w x 10.25" h x 20.5" d $4,295

PMF3150 Dual-Channel Power Amplifier
Features 300 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.03% THD; MOSFET circuitry; THD/IMD 0.03%; max current output 10 A continuous per/ch; bandwidth 0.5 dB from 10



Hz to 3,000,000 Hz at 1 watt; channel sep >70 dB; damping factor >400 from 10 Hz to 1,000 Hz; input sens 1.5 volts rms for rated output at 1,000 Hz $2,395
PMF1850. Similar to above with 180 W/ch/rms $1,895

PMF2350 Power Amplifier
Features 200 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.01% THD; Class-A operation to 20 W/ch; channel sep 20-20,000 Hz 70 dB; damping factor 1,000 at 200 Hz, over 400 from 10 to 1,000 Hz; input sens 1.5 volts rms for rated output at 1,000 Hz. 19" w x 16.25" h x 5.75" d; 34 lb $1,895

PMF1050 100-W/ch Power Amplifier
Features Class-A operation to 10 W/ch; drives any known speaker load; MOSFET output drivers; switching between 2 speaker systems and headphones. 100 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.03% THD; dynamic headroom >2 dB. 17" w x 4" h x 13.5" d; 27 lb $1.050

PIONEER

M-90(BK) Power Amplifier
Features CD direct input with volume control; low-impedance driving capability; independent L/R mono construction; copper-plated chassis; nonswitching Type-II circuit; 2 pair speaker outputs; FL power level indicator; rosewood-finished vinyl-covered side panels. 200 continuous average W/ch from 5-50,000 Hz into 8 ohms with no more than 0.003% THD; dynamic power 300 W at 8 ohms, 550 W at 4 ohms. 10.41" h x 22.47" w h 21.22" d $950

PROTON

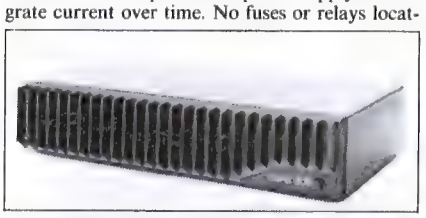
D1200 Power Amplifier
100-W/ch stereo power amp with Dynamic Power on Demand (DPD) to deliver as much as 1,500 W/ch (2 ohms) at peak demand, with 6-dB headroom. Features one- touch bridging and wide-range power-output meters. 16.5" w x 4.31" h x 9.75" d; 33 lb $599

D-1150 Power Amplifier
Features 50 W/ch rms; DPD; dual-mono configuration to enhance stereo imaging and reduce crosstalk $429

QUAD

Model 606 Power Amplifier
Power amp with feed-forward error correction (current dumping) combines clarity of Class A operation with efficiency of Class B. Designed to play dynamic program into speakers. Is not rated for continouous power. Protection circuitry uses a sensor on AC-input side of power supply to integrate current over time. No fuses or relays located in signal path. Detailed static and dynamic power curves available upon request from manufacturer. Total harmonic distortion (continuous sine wave in 8-ohm resistive load any level up to 130 W) <0.01% at 20 Hz, <0.01% at 1,000 Hz, <0.03% at 20,000 Hz; frequency response 20-20,000 Hz −0.25 dB. 12.75" wide x 5.5" high x 9.5" deep; 27 lb $1,195

Model 306 Power Amplifier
Power amp with feed-forward error correction (current dumping) combines clarity of Class A operation with efficiency of Class B. Designed to play dynamic program into speakers. Is not rated for continouous power. Protection circuitry uses a sensor on AC-input side of power supply to integrate current over time. No fuses or relays locat-



ed in signal path. Detailed static and dynamic power curves available upon request from manufacturer. 12.75" w x 2.75" h x 8.25" d; 11 lb$595

QUICKSILVER AUDIO

Mono Power Amplifier
Hand-wired, tube-type amp using no transisitors or circuit boards. 60 continuous average W/ch from 20-20,000 Hz into 8 or 4 ohms. Can drive 0.5-ohm loads. 30 lb; 9.25" w x 6.06" h x 14.36" d $720

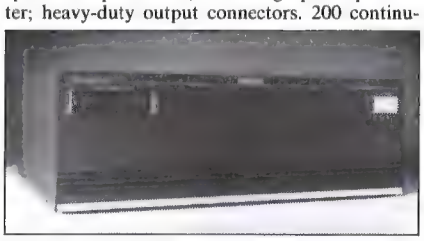
RCA

MPA120 Power Amplifier
Dimensia power amplifier with automatic power-on and on-screen volume graphics indication when used with Dimensia monitor. Features fluorescent output display with peak hold; LED power and overload indicators; quick-connect speaker terminals; display on/off switch; headphone jack; A/B speaker switching; AC convenience outlet. Power output: 120 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.015% THD; S/N 88 dB. 14.63" w x 4.75" h x 13.75" d $399

MPA100 Power Amplifier
Dimensia power amplifier with automatic power-on and on-screen volume graphics indication when used with Dimensia monitor. Features quick-connect speaker terminals; headphone jack; A/B speaker switching; AC convenience outlet. Power output: 100 W/ch into 8 ohms from 20-20,000 Hz with no mor than 0.015% THD; S/N 88 dB. 14.63" w x 4.75" h x 13.75" d $299

REVOX

B242 Power Amplifier
High-output power amp capable of driving loads from 2 to 8 ohms at rated levels. Features dual independent power supplies; DC voltage control; electronic short-circuit protection; temperature sensor to activate fan cooling; auto on/off switching responds to signal from preamp; 4/8-ohm speaker output switch; LED bar-graph output meter; heavy-duty output connectors. 200 continu-



ous average W/ch from 20-20,000 Hz with no more than 0.03% THD, 300 W into 4 ohms; dynamic headroom 2.5 dB into 8 ohms; S/N 117 dB; rise time −2 μs; damping factor 200 (1 kHz 8 ohms); sep 80 dB at 1,000 Hz. 18" w x 6" h x 14" d; 37.5 lb $3,000

ROBERTSON AUDIO

Sixty Ten Power Amplifier
Power amp with independent power supplies for each channel. 200 continuous average W/ch from 20-20,000 Hz with no more than 0.1% THD into 8 ohms; FR 0.5-250,000 Hz ±3 dB; S/N 90 dB; slew rate 256 V/μsec; IMD 0.0023%; 65 lb$2,700

Forty Ten Power Amplifier
Power amp with independent power suplied for each channel. 60 continuous average W/ch from 20-20,000 Hz with no more than 0.1% THD into 8 ohms; FR 0.5-330,000 Hz ±3 dB; S/N 90 dB; slew rate 159 V/μsec; IMD 0.05%; 23 lb .. $995

ROTEL

RB890 Stereo Power Amplifier
Power amp with 160 continuous average W/ch from 20-20,000 Hz into 8 ohms with no more than 0.03% THD; Bridgeable to 480 watts/8 ohms; high-current close-tolerance components $699

RB870BX Stereo Power Amplifier
100-watt power amp bridgeable with RA870 (in-

tegrated amp) for 300 watts into 8 ohms; THD/IMD 0.03% 20-20kHz; high current $499

RB850 Stero Power Amplifier
50 W/ch bridgeable to 150 W into 8 ohms; THD 0.03%; IMD 0.05%. High current $299

ROWLAND RESEARCH

Model 7 Monaural Power Amp
Solid-state mono power amp with FET front-end circuitry and bipolar outputs. Features direct-coupled zero-negative-feedback circuitry to eliminate all capacitors and inductors from signal path; seperate power supplies for front-end circuitry; torodidal power supplies with 132,000-microfarad capacitance for over 500 joules of energy; remote AC power switching; internal voltage switching (100V-240V AC). Optional balanced input with XLR connector. Adjustable input imp for optimum input cable termination. Class A operation to over 50 watts. 350 W continuous power ourput into 8 ohms, 1,100 W into 2 ohms, stable below 1 ohm. 150 amps peak output current, 50 amps continuous. Damping factor >300, 20 Hz-20,000Hz; 135 lb ea; 19" w x 8.75" h x 24" d $8,800/pr

Model 5 Stereo Power Amplifier
Solid-state power amp with FET front-end circuitry and bipolar outputs. Features direct-coupled zero-negative-feedback circuitry; seperate power supplies; torodial power transformer with 164,000-microfarad total capacitance; remote AC power switching; internal universal voltage switch; optional balanced inputs with XLR connector; adjustable input imp; Class A operation to over 35 watts. 150 W/ch continuous power output into 8 ohms, 475 W into 2 ohms, stable below 1 ohm; damping factor >175, 20-20,000 Hz; 75 amps peak output current; 30 amps continuous. 103 lb; 19" w x 8.75" h x 24" D $4,600

Model 3 Mono Power Amplifier
Solid-state power amp with bipolar outputs with FET inputs. Features direct- coupled zero-negative-feedback circuitry; seperate power supplies for front-end; toroidal power transformer stable to 1 ohm; remote power switching; balanced or unbalanced inputs standard; adjustable input imp. 100 W into 8 ohms, 220 into 4 ohms, 330 into 2 ohms; peak output current over 55 amps. 15.2" w x 5.25" h x 14" d; 44lb $3,950/pr

SAE

X10A Power Amplifier
Hypersonic Class A power amp. Features gold-plated connectors; toroidal transformer; wide/narrow band inputs; LED true power meters; anodized gray finish. 100 continuous average W/ch from 20-20,000 Hz with no more than 0.025% THD into 8 ohms; FR 20-20,000 Hz ± 0 dB; S/N 110 dB; dynamic headroom 1.2 dB; slew rate 20 amps/μs; IMD 0.02%; 19" w x 3.5" h x 12.5" d; 28 lb $900

A502 Power Amplifier
Power amp with automatic bridging circuit. 200 continuous average W/ch from 20-20,000 Hz with no more than 0.025% THD into 8 ohms; 600 W mono operation. Features dual-speaker system switching; peak and average LED power display. Rack mountable. FR 20-20,000 Hz ± 0 dB; S/N 110 dB; dynamic headroom 1.2 dB; IMD 0.025%; 19" w x 5.25" h x 14" d; 48 lb $699

A202 Power Amplifier
Power amp with 100 W/ch and balanced, discrete outputs. Features dual-speaker switching; peak and average level LED power display. Rack mountable. 100 continuous average W/ch from 20-20,000 Hz with no more than 0.025% THD into 8 ohms; FR 20-20,000 Hz ± 0 dB; S/N 110 dB; dynamic headroom 1.2 dB; IMD 0.025%; 19" w x 3.5" h x 14" d; 31 lb $449

SANSUI

B-2301 Power Amplifier
Vintage series DC power amp with X-balanced technology. Features fluorescent peak power display with switchable peak/hold functions; balanced ch-connector inputs. 300 continuous average W/ch from 20-20,000 Hz with no more than 0.003% THD into 8 ohms; FR 0-300,000 Hz +0, −3 dB; slew rate 300 V/μsec; 18.66" w x 4.94" h x 19.69" d; 81 lb $2,600

B-2102 Power Amplifier
Vintage series DC power amp with X-balanced technology. Features fluorescent peak power display with switchable peak/hold functions. Handles 2 pairs speakers with front-panel bass and treble attenuators. 200 continuous average W/ch from 20-20,000 Hz with no more than 0.003% THD into 8 ohms, 600 W/ch dynamic power into 2 ohms; FR 0-300,000 Hz +0, −3 dB; S/N 115 dB; slew rate 350 V/μsec; 16.94" w x 6.94" h x 16.25" d $1,1100

SONOGRAPHE BY CONRAD-JOHNSON

SA120 120-W/ch Power Amp
Features MOSFET output stage; 120 W/ch into 8 ohms; S/N 100 dB; 18" w x 5.25" H x 12" D$895

SOUNDCRAFTSMEN

Pro Power Eight Power Amplifier
MOSFET stereo power amp. Features phase-control-regulation power supply; 600 W/ch continuous rms into 4 ohms, 750 W/ch into 2 ohms; over 1,000 W/ch short term continuous power into 2 ohms; 375 continuous average W/ch from 20-20,000 Hz with no more than 0.05% THD into 8 ohms; FR 20-20,000 Hz ± 0.1 dB; S/N −105 dB; slew rate 50 V/μs; IMD 0.05%; rack mount. 19" w x 5.25" h x 17" d; 60 lb $1,399

A5002 Power Amplifier
Power amp with Class H Vari-Proportional circuitry and autobuffer for continuous operation into 2 ohms. Features auto crowbar-protection circuit for output protection without current limiting; 20 LED/ch 0-1,000 W ± 3 dB (4 ohms) meters; front-panel switching for 2 pairs of speakers; true clipping indicators; input level controls. Output power 250 w/ch into 8 ohms, 375 w into 4 ohms continuous rms, 20-20,000 Hz at <0.09% THD; S/N >105 dB; slew rate >50 V/μs; TIM <0.02%; dynamic headroom <2 dB $899
A5001. Same as A5002 except no LED meters and no input level controls $749

Pro-Power Four Power Amplifier
Ultra-high-current MOSFET power amp with 20-segment LED meter, true clipping indicators, 2-pair speaker switching, level controls. 205 continuous average W/ch from 20-20,000 Hz into 8 ohms with no more than 0.05% THD, 300 W into 4 ohms, 450 W into 2 ohms; S/N 105 dB; slew rate 40 V/μs. 19" w x 5.25" h x 11" d $749
Pro-Power Three. As above without level controls and LED meters $649

Pro Reference Two Power Amplifier
MOSFET stereo power amp with 20-LED power meters. Features switching for 2 pairs of speakers; input level controls; true clipping indicators; brushed aluminum with charcoal finish rack-mount front panel. Output power 100 W/ch into 8 ohms, 200 W/ch into 4 ohms, continuous rms, 20-20,000 Hz at <0.05% THD; S/N >105 dB; damping factor 200 ..... $699
Pro Reference One. Same as Pro Reference Two without LED meters $599

PCR800 Power Amplifier
Phase-control-regulation MOSFET stereo power amp. 205 W/ch continuous rms; 20-20,000 Hz into 2 ohms, 4 ohms, 8 ohms; THD 0.05%; TIM unmeasureable; S/N >105 dB; 18 lb; 5" w x 8.25" h x 12" d $499

SUMO

The NINE PLUS Power Amplifier
Class A power amp without any active bias circuits or thermal tracking networks. Features balanced-bridge configuration; push-pull quadrature feedback circuits; Discrete-Darlington output stage; direct-coupled circuitry from input to output. Power output 65 W/ch into 8 ohms from 20-20,000 Hz with <0.1% THD; IM distortion 0.05% from 0.25 W to rated output; hum and noise 100 dB (wide band) below rated power; input sens for rated output 1.0 V rms; FR 20-20,000 Hz ± 0.25 dB; 14" w x 8.5" h x 7" d; 35 lb $1099

Andromeda Power Amplifier
Class AB power amp with full-wave quadrant differential balanced-bridge topology using 4 independant push-pull feedback loops. Power output 200 W/ch continuous average into 8 ohms; THD 0.05%; IM 0.05%; slew rate 20 V/μsec; sens 1.8 V for rated output; dynamic headroom 1.5 dB; 19" w x 8.75" h x 7" d; 35 lb $999

The NINE Power Amplifier
Class A power amp with auto-biasing technology obviating thermal tracking, conventional bias, and protection circuitry. Power output 60 W/ch continuous average into 8 ohms; THD 0.25%; IM 0.05%; slew rate 15 V/μsec; sens 1.0 V for rated output; 19" w x 8.75" h x 7" d; 35 lb..... $799

Polaris Power Amplifier
Class AB power amp that does not invert phase. Power output 100 W/ch continuous average into 8 ohms; THD 0.05%; IM 0.05%; sens 1.27 V for rated output; dynamic headroom 1.5 dB; 25 lbs. With custom front panel and handles $649

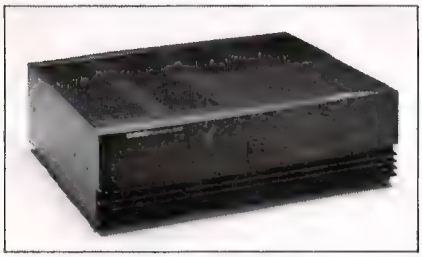
TANDBERG

TPA 3016A Power Amplifier
Stereo power amp with high-current (100 amp/ch) output design. Features seperate power supply and toroidal transformer for each ch; zero feedback with 16 power MOSFET's in the output stage; 120,000-microfarad storage capacity; stable to 1 ohm; electronically controlled auto fan. 220 W/ch with no more than 0.05% THD; slew rate 200 V/μs; S/N 100 dB; 17.13" w x 8.69" h x 13.75" d; 62 lb $3,595

TPA-3026A Power Amplifier
Stereo power amp with high current output (45 amp/ch). Features selected all-metal film resistors and polypropylene capacitors; zero negative feedback and discrete components. 150 W/ch with no more than 0.02% THD into 8 ohms; S/N 100 dB; 17.13" w x 5.25" h x 13.75" d; 24 lb $1,995

The listings are based on data provided by the manufacturers. For more product information, contact an authorized dealer or the manufacturer directly. Manufacturers' addresses and phone numbers are listed in the directory beginning on page 226.

TPA 3036. Similar to above except 100 W/ch;



current ouput 30 amp/ch; THD 0.08% . . . $1,099

TECHNICS

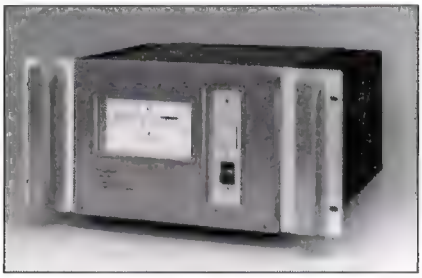
SE-A3MK2 300-W/ch Power Amplifier
Features computer-drive linear-feedback Class-A circuitry; concentrated power block; extra-large transformers and capacitors for stable power supply; 4-stage Darlington output circuitry; autoload imp detector; computer-protection circuitry; large, fast peak-power meters; extra 2-Hz low-cut input terminals; main/remote/main and remote/off pushbutton speaker selectors; thick aluminum cabinet. Output power 300 W/ch into 8 ohms; FR dc-200,000 Hz ± 3 dB; input sens/imp 55 mV/4-16 ohms main or remote, 8-16 ohms main and remote; damping factor 200 8 ohms, 100 4 ohms; 16.94" w x 8.19" h x 19.97" d; 86 lb$2,325

SE-A100 170-W/ch Power Amplifier
Features 1 voltage and 1 current amplifier per ch (voltage amps isolated from load by Class AA bridge circuit which drives current amp to avoid influence of complex, fluctuating speaker imps on voltage/current phase relationship, preventing counter electro-motive force); massive power supply; 3 transformers (L-ch current amp, R-ch current amp, L/R voltage amps) using LC-OFC windings; 91,200-μfarad filtering; magnetic isolation; vibration damping. 170 W/ch into 8 ohms, 240 W into 4; dynamic headroom 0.7 dB. 17" w x 8.25" h x 18.75" d; 70 lbs $1,600

SE-A5MK2 150-W/ch Power Amplifier
DC power amp with linear feedback and computer drive to neutralize transient crossover distortion. Features parallel 3-stage Darlington output; power-linear circuit to compensate for speaker imp variation; power-output meters. 150 W/ch into 8 ohms; FR DC-150,000 Hz +0/-3 dB; IMD 0.002% 8 ohms; LF damping factor 100; 16.94" w x 7" h x 16.36" d; 40.6 lbs..... $800

THRESHOLD

Model SA/1 Class A Stasis Power Amplifier
Single-ch, noninverting complimentary-symmetry power amp with N-ch JFETs in front-end signal path and proprietary Stasis output stage. This is a binary topology in which a pure Class A voltage amp connected directly to the loudspeaker load determines signal integrity while operating in conjunction with a high-amperage currect mirror also operated in pure Class A and connected directly to the load. No global feedback is used. Output stage bias accuracy is maintained through Threshold's proprietary opto-isolated optical bias technology. Front-end gain stages biased for Class-A operation at all signal levels and are subject to primary and secondary levels of cascode shielding. Output stage employs 40 ultra-wide-bandwidth power transistors each rated at 200 V, 20 amperes. No fusing is imposed between output and load. Input and output connectors have gold-plated contact surfaces. Circuit boards are military grade glass-epoxy and all internal connections are hand soldered. Operation is allowed into any load as permitted by power-supply fuses and thermal-protection circuitry. Large illuminated front-panel peak power meter covers −30 to +3 dB. Power supply 1,000 w toroidal transformer, 120,000 μF capacitance. Rated power 160 W rms into 8 ohms of resistive or reactive imp 20-20,000 Hz at no more than 0.05% THD; idling bias 320 W; bandwidth at −3 dB points, 7 Hz and 100,000 Hz; slew rate 50V/μsec; IMD 0.1%; input imp 75,000 ohms; output cur-



rent capability 40 amperes continuous, 150 amperes peak; 19" w x 9.5" h x 17.5" d; 79 lb$3,950
Model SA/2 Class A Stasis Power Amp. Similar to SA/1 except no output power meter. 100 continuous W/ch from 20-20,000 Hz with no more than 0.05% THD into 8 ohms; idling bias 240 watts; FR 7-100,000 Hz at −3 dB points; S/N −100 dB un-wtd, referenced to rated output; slew rate 50 V/μsec; IMD 0.1%; 19" w x 9.5" h x 13.12" d; 56 lb $2,650
Model SA/3 Class A Stasis Power Amp. Similar to SA/2 except dual ch, lower power configuration. 50 W/ch rms both channels driven from 20-20,000 Hz with no more than 0.05% THD into 8 ohms; idling bias 240 watts; frequency bandwidth 7 Hz and 100,000 Hz at −3 dB points; S/N −100 dB unwtd referenced to rated output; slew rate 50 V/μs; IMD 0.1%; 19" w x 9.5" h x 13" d; 56 lb $2,650

Model S/500 Class A/AB Stasis Power Amp
Dual-ch, noninverting complementary-symmetry power amp employing the same signal-path and optical topology as SA-series amps except current bootstrap section of Stasis ouput stage is operated under high bias as Class A/AB. No global feedback employed. Front-end gain stages and voltage amp section of Stasis output stage are biased for Class A operation at all signal levels. Front-end signal trnasistors are subject to primary and secondary levels of cascode shielding. Modular construction. 250 W/ch rms from 20-20,000 Hz with no more than 0.1% THD into 8 ohms; idling bias 240 watts; frequency bandwidth at −3 dB points 7 Hz and 100,000 Hz; S/N −100 dB unwtd referenced to rated output; slew rate 50 V/μs; IMD 0.1%; 12 continuous, 100 peak amperes capability/ch. 19" w x 9.5" h x 17.5" d; 78.5 lb .$3,500
Model S/300 Class A/AB Stasis Power Amp. As model S/500 except rated power 150 W/ch rms into 8 ohms, both chs driven 20-20,000 Hz at 0.1% THD; output transistor complement fourteen 200-V, 20-ampere devices/ch; power supply 700-W toroidal transformer, 60,000 μF capacitance; output current capability 10 amperes/ch continuous, 80 amperes/ch peak; 19" w x 9.5" h x 13" d; 56 lb $2,550
Model S/200 Class A/AB Stasis Power Amp. As model S/300 above except rated power 100 W/ch rms into 8 ohms, both chs driven 20-20,000 Hz at 0.1% THD; idling bias 160 watts output transistor complement eight 200-V, 20-ampere devices/ch; power supply 400-W toroidal transformer, 30,000 μF capacitance; max output current 8 amperes/ch continuous, 50 amperes/ch peak; 19" w x 9.5" h x 17.5" d; 44 lb $1,700

VECTOR RESEARCH

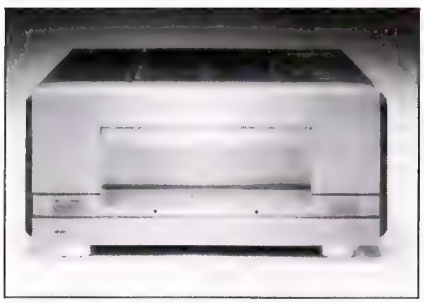
VA-1450 Power Amplifier
Features high-current, 8-output transistors, dual transformers; used in bridging mode with VA-1400 to convert to 200 W/ch. 100 continuous average W/ch 20-20,000 Hz <0.08% THD into 4 ohms; dynamic headroom 2.5 dB; IHF IMD 0.08%; FR 10-40,000 Hz ± 1 dB; 21 lbs. 17" w x 3" h x 12" d..... $349

WINGATE AUDIO

2000A Class A Power Amp
100% MOSFET's; zero negative feedback; dual-mono construction; MOSFET regulated power; toroidal power transformer; ultra-wide bandwidth. 100 continuous average W/ch from 20-20,000 Hz with no more than 0.5% THD into 8 ohms; FR 0.06-250,000 Hz +0, −3 dB; S/N <100 dB; dynamic headroom 1.6 dB; slew rate 100 V/μsec; IMD 0.5%; gain 30 dB; input imp 20,000 ohms; 19" w x 8.12" h w 22" d; 95 lbs . .$3,700
2000M. 200-W mono block, same performance as 2000A except power output 200 W, damping factor >60; current drive capability 128 amperes peak to peak, continuous current drive 46 amperes $8,000/pr

YAMAHA

MX-10000 Power Amplifier
Limited Centennial Edition power amplifier. Features dual-amp class-A operation; hyperbolic converting nonswitching circuitry; power MOSFET's; high-precision analog dB scale peak level meter. 250 W/ch min rms into 8 ohms from 20-20,000 Hz with less than 0.0005% THD. Tita-



nium grey with high luster walnut end panels; 120 lb $7,000

M-85B Power Amplifier
Features auto class A; zero distortion rule; high dynamic power; low-impedance drive capability; three-pair speaker switching; wide range LED power level meters with on/off switch. 260 W/ch min rms into 8 ohms from 20-20,000 Hz with less than 0.003% THD. Black; 53 lb $999
RMA-M80. Rack mount adaptor for M-85B power amplifier $18.00

M-65B Power Amplifier
Features auto class A; zero distortion rule; high dynamic power; low-impedance drive capability; three-pair speaker switching; wide range LED power level meters with on/off switch. 170 W/ch min rms into 8 ohms from 20-20,000 Hz with less than 0.003% THD. Black; 38 lb $729
RMA-M80. Rack mount adaptor for M-65B $18

M-45B Power Amplifier
Features auto class A; zero distortion rule; high dynamic power; low-impedance drive capability; wide range LED power level meters with on/off switch. 125 W/ch min rms into 8 ohms from 20-20,000 Hz with less than 0.003% THD. Black; 31 lb $449
RMA-M80. Rack mount adaptor for M-45B $18

M-35B Power Amplifier
Features 2 or 4 channel output; independent level control; high dynamic power; low-impedance drive capability. 40 x 2 or 20 x 4 W/ch min rms into 8 ohms from 20-20,000 Hz with less than 0.003% THD; 13 lb $249

PREAMPLIFIERS

ACCUPHASE BY MADRIGAL

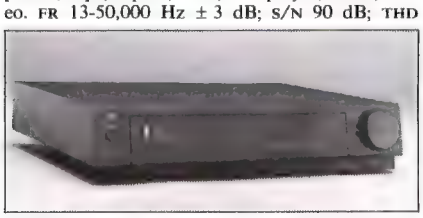
C280L Class A Preamplifier
All-stage Class A push-pull arrangement and DC servo-controlled direct-coupled unit amps and signal paths. Built-in head amp for MC cartridges; separate power transformers for each ch (+26 dB or +32 dB); MC input-imp selector switch; separate R and L input-level control; 2-stage selectable loudness compensation. Phono input 2 mV, phono (head amp on): 0.1 mV/0.5mV selectable; line/tuner input 126 mV; rated output 2 V; line/tuner S/N 110 dB; phono S/N 85 dB; phono S/N (head amp on) 72 dB . $7,625

C270 Class A Preamplifier
Cascode push-pull circuits on all stages; separately regulated power supply for each gain stage in each ch; fully balanced input and output for CD player; 10 inputs; selectable loudness compensation. Inputs for MM phono; tape; tape 2; CD player; CD player/balanced; tuner; 4 line-level sources. S/N 92 dB; 34.4 lb $5,480

C200V Preamplifier
Preamp and control center with 11 inputs; separate tone controls for each ch with selectable turnover frequencies; some inputs and outputs accessible from front panel. Inputs for MM phono, MC phono, tape, tape 2, tape 3; aux, phono 2, phono 3, CD player, tuner; line 2; line 3. Max output 8.0 V; MM phono sens 0.5 mV for 0.5-V output at 1,000 Hz; MM phono input overload level 300 mV, 30 lb $4,000

ACOUSTIC RESEARCH

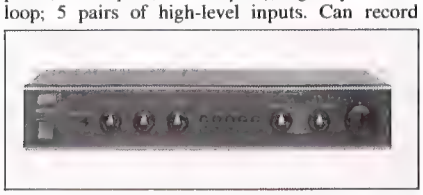
AR C-06 8-Input Preamplifier
Features infrared remote control of inputs and volume via T-04 tuner cable link; switchable MM input capacitance; gold-plated phono inputs; separate headphone amp. Inputs for MM phono; MC phono; tape; tape 2; AUX; CD player; tuner; video. FR 13-50,000 Hz ± 3 dB; S/N 90 dB; THD



0.005%; phono sens/imp 0.8 mV/47 kilohms (MM), 60 μV/180 kilohms (MC); phono overload level 180 mV (MM), 15 mV (MC); CD input sens/imp 50 mV/15 kilohms; tuner/tape input sens/imp 50 mV/33 kilohms. 17" w x 3.31" h x 13" d $360

ADCOM

GFP-555 Preamplifier
Features 2-sided copper-plated circuit board for low noise and hum; switchable phono-input capacitance; switchable gain on phono input; tape dubbing; separate headphone amp; 2 sets of outputs (AC coupled, DC coupled); signal-processor loop; 5 pairs of high-level inputs. Can record



from one input while listening to another input. Inputs for MM phono; MC phono; tape; tape 2; CD player; tuner; video. FR DC-400,000 Hz ± 0.5 dB; THD 0.005%; MM phono sens 0.4 mV for 0.5-V output at 1,000 Hz; sens for line-level inputs 40 mV. 17" w x 3.25" h x 12.75" d $500

GFP-555W. As above with white front panel$575
GFP-555S. With silver front panel $575

GTP-500 Preamplifier/Tuner
Preamplifier with built-in tuner can be used with Adcom or other power amps. Wireless remote control included. Remote sensors available for remote control from different rooms. Preamp section features inputs for MM phono; tape; tape 2; CD player; tuner. Tuner section features quartz-referenced digitally synthesized tuning; auto up and down scan; 8 AM/FM presets; 5-LED signal-strength display; high-blend circuit; 2 sets of outputs (AC coupled, DC coupled). S/N phono A-wtd 85 dB; IMD preamp 0.0015%; sens tuner 36.5 dBf stereo; THD tuner 0.09% stereo at 1,000 Hz; S/N tuner 75 dB stereo; sep tuner 52 dB at 1,000 Hz. 17" w x 3.25" h x 12.75" d $550
GTP-500W. As above with white front panel$625
GTP-500S. With silver front panel $625

Accessories
RM-3. Optional rack-mount adaptors for GFP-555 and GTP-500 . . . . . $20/pr
RM-3W. RM-3 in white $25/pr
RM-3S. RM-3 in silver $25/pr
XR-500. Optional remote sensor for GTP-500$90

APT

HP Preamplifer
Multiple control stereo preamp. Features Tape 1 to 2 or Tape 2 to 1 dubbing, absolute output mute image control, variable phono imp, 18 dB infrasonic filter. Inputs for MM phono, MC phono, tape, tape 2, aux, phono 1, phono 2, CD player, tuner, external processor. FR 20-20,000 Hz ± 0.5 dB; max output 7 V RMS (+17 dBV) max undistorted; THD 0.006% at 2.0 V rms (+6.0 dBV); IMD 0.006% IHF; MM phono sens 1.25 mV for 0.5-V output at 1,000 Hz; MM phono input overload level 100+ mV rms at 1,000 Hz; sens for line-level inputs 80 mV rms for 0.5 V rms output; 16.9" w x 3.1" h x 8.2" d; 10 lb $680

P205 Preamplifier
Phono-only preamp with single-ended input, balanced output (100 to 600 ohm load). Features switchable cartridge termination 50-450 μF (in 50 pF increments); 33 μ, 47, 100, 1,000 kohms; Defeatable 18-dB infrasonic filter (for evaluation purposes); L + R output level (with switchable filter type). Switchable 8-Hz pop/scratch filter. Phono noise less than 76.8 dB re 5 mV input at 1,000 Hz, weighted with cartridge connected (−78 theoretical limit), RFI immune. Tamper-proof controls; 4-year warranty. FR 30-18,000 Hz ± 0.2 dB; max output +26 dBV max undistorted; THD 0.06%; IMD 0.06% IHF; MM phono sens 1.25 mV for 0.5-V output at 1,000 Hz; MM phono input overload level 125 mV; 19" w x 3.46" h x 8.2" d; 9 lb $475

P2 Preamplifier
Slimmed-down version of the APT Holman preamplifier. Inputs for MM phono, MC phono, tape, aux, phono 1, phono 2, CD player, tuner. FR 20-20,000 Hz ± 0.5 dB; max output 7 V RMS undistorted; THD 0.006%; IMD 0.006% IHF; MM phono sens 1.25 mV rms for 0.5-V rms output at 1,000 Hz; MM phono input overload level >100 mV at 1,000 Hz; sens for line-level inputs 80 mV rms for 0.5 V rms output; 16.9" w x 2.2" h x 8.""d; 9 lb $450

AUDIO DESIGN ASSOCIATES

CPC-8 Central Controller Mainframe
Program controller mainframe with 8 input source selector modules. Each module has 8 source selection with remote control and remote readout capability. Used with ASU-10 AC controller $14,431

DSP-8 Preamplifier
Used in conjunction with ASU-10 and SC-88. Allows remote control selection of any of 8 sources with digital readout in each room. Features 3 tape loops; 1 external processor loop; separate phono stage (external). Inputs include MM phono; tape; tape 2; aux; CD player; tuner; video; CD 2. FR 5-50,000 Hz ± 3 dB; S/N 110 dB; THD 0.007%; sens 50 mV. 8 lb; 19" w x 3.5" h x 12" d $1,300

AUDIO DYNAMICS

C200 Preamplfier
Audio/video preamplifier with built-in Dolby and matrix surround-sound processors. Features-simulated stereo for mono sources; bass, mid-range, and treble tone controls; tone-defeat switch; loudness switch; muting switch; external processor loop; dubbing; separat recorind and listening selectors for recording one source while listening to another. Inputs for MM/MC phono; tuner; AUX; CD player; video montior, and 3 audio or video tape decks. FR 10-50,000 Hz +0, −3 dB (line level), 20-20,000 Hz ± 0.25 dB (phono). 11.75" w x 4" h x 12.62" d $599

AUDIO RESEARCH

SP-11 Stereo Hybrid Preamp
High-Definition® preamp with both vacuum tubes and field effect transistors. Inputs for MM phono/MC phono; tape; tape 2; aux; CD player; tuner; video. Features auto muting for warm-up, brown-out, powerline interruption; manual muting; bypass switch for audiophile-quality program material; absolute phase switch; level control; toroidal power transformer. FR 0.1->200,000 Hz ± 3 dB; S/N 110 dB; THD <0.005%; MM phono sens 0.088 mV for 0.5 V output at 1,000 Hz; MM phono input overload level 350 mV at 1,000 Hz; sens for line-level inputs 18 mV. 46 lb; 19" w x 5.25" h x 10.25" d $4,900

SP-10 Vacuum-Tube Stereo Preamp
High-Definition® stereo preamp with additional gain for use directly with MC cartridges. Inputs for MM and MC phono, tape, aux, phono 2, tuner, aux 2. Features auto muting for repeat settings, etc; power switch for 1,600-W capacity power receptacles; selectable front-panel imp matching for optimizing MC and MM cartridge performance; gain selection for matching cartridges; bypass switch defeats most functions for optimum performance. FR (high level, ± 0.25 dB) 5-30,000 Hz; magnetic phono, ± 0.25 dB of RIaa, 30-40,000 Hz; max output 6 V; THD 0.01% and IMD 0.002% at 2 V rms out; MM sens 0.125 mV of 0.5 V output at 1,000 Hz; MM overload level 300 mV; line-level input sens 25 mV; input imp 50k ohms (all high level); magnetic phono, 10, 30, 100, 10k, 47k ohms (selectable). Two units 19" w x 5.25" h x 10.25" d; 49 lb shipping weight$3,700

SP9 Hybrid Stereo Preamp
On-board power supply; auto mute circuit for warmup, voltage drop; switchable muting; 2 tape inputs, 2 tape outputs; 2-position tape-monitor switching; gold-plated input/output jacks connect ground before hot, disconnect hot before ground; shielded toroidal power transformer; internally adjustable phono-section imp; 2 6DJ8 vacuum tubes (1 in phono stage, 1 in line stage); compatible with many MC cartridges; black front panel extra. FR (high level, ± 0.5 dB) 5-50,000 Hz; magnetic phono, ± 0.3 dB of RIAA, 30-40,000 Hz; max output 2 V rms; distortion

For explanations of abbreviations, specifications, and technical terms, consult the glossary on page 221.

<0.01% at 2 V rms out; input imp 50k ohms; phono 47k ohms (changeable). 19" w x 5.25" h x 10.25" d; 13 lbs net, 22-lb shipping weight$1,695

SP-8 Vacuum-Tube Stereo Preamp
High Definition preamp with 1.5-minute warm-up timer. Inputs for MM phono, tape, AUX, tuner, AUX 2. Features auto muting; continuous protection against line-voltage dropouts; high-accuracy, close-tracking segmented gain control; front-panel receptable switch for 2 relay-controlled outlets with 1,600-W capacity; isolated ground construction that floats all inputs and outputs; rejection filters for minimizing or eliminating CB, TVI, RF interference. FR 5-30,000 Hz ± 0.25 dB high-level, to 40 kHz phono; max output 60 V; THD and IMD <0.01%/0.002% at 2 V rms; MM sens 0.5 mV for 0.5 V output at 1,000 Hz; line-level sens 25 mV; gain phono/high-level to main output 26/60 dB; input/output imp 50k/1k ohms; phono overload 900 mV; output level 2 V rms; noise 250 μV rms max high-level, 5 μV phono; power consumption 60 W; 19" w x 10.25" D x 5.25" H; 22 lb $1,995

MCP33 Vacuum-Tube Preamp
Preamp for low-output MC cartridges. Features front-panel gain and imp selectors. FR 20-50,000 Hz ± 1 dB; max output 10 V; THD 0.005% at 100 mV; IMD 0.01% at 100 mV; 19" w x 5.25" h x 12.38" d; 14 lb $1,395

SP-7 Solid-State Stereo Preamp
With Analog Module™ technology. Inputs for MM phono; tape; aux; tuner; aux 2. Features manual and auto muting; close-tolerance segmented gain control; front-panel receptacle switch that operates 3 relay-controlled outlets with 1,600-W capacity; low-surge turn-on circuitry; isolated ground construction that floats all inputs and outputs; rejection filters for low RFI, TVI, CB interference. FR 1-50,000 Hz ± 0.25 dB high-level, 10-40,000 Hz phono; THD and IMD <l0.002% at 2 V rms; MM sens 0.5 mV for 0.5 V output at 1,000 Hz; gain phono/high-level to main outputs 60/26 dB; input/output imp 50k/250 ohms; phono overload 500 mV at 1 kHz; output level 2 V rms; noise high-level/phono 250/2 μV; 19" w x 8.5" D x 3.5" H; 20 lb shipping weight $995

Wood Cabinets
For Audio Research components.
OC-4. Light oak $125
WC-4. Walnut $125

B&K COMPONENTS

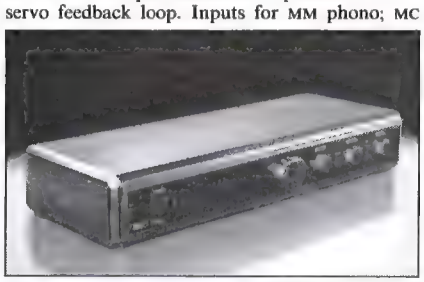
Pro-10MC Preamplifier
Preamp with built-in MC stage. Inputs for MM phono, MC phono, tape, AUX, CD player, tuner. FR 1-100,000 Hz ±3 dB; max output 6 V; THD 0.01%; IMD 0.01% IHF; MM phono sens 0.5 mV for 0.5-V output at 1,000 Hz; MM phono input overload level 100 mV, sens for line-level inputs 0.450 mV. 19" w x 3.5" h x 10" d; 12 lb .. $595

Pro-10 Preamplifier
Preamp with separate power supply and gold-plated connectors for positive contact and reliability. Inputs for MM phono, tape, AUX, CD player, video, tuner. FR 1-100,000 Hz ± 3 dB; max output 6 V; THD 0.01%; IMD 0.01% IHF; MM phono sens 0.5 mV for 0.5-V output at 1,000 Hz; MM phono input overload level 100 mV, sens for line-level inputs 0.450 mV. 19" w x 3.5" h x 10" d; 12 lb $550

Pro-5 Preamplifier
Preamp features 5 high-level inputs; 1 phono stage with 57 dB gain; balance, volume, bass, treble controls; gold-plated RCA connectors; moving-coil capacity. Inputs for MM phono, tape, AUX, CD player, tuner, video. FR 1-100,000 Hz ± 3 dB; S/N 100 dB; MM phono sens 0.7 mV for 0.5-V output at 1,000 Hz; MM phono input overload level 105 mV at 1,000 Hz; sens for line-level inputs 0.636 mV. 19" w x 3.5" h x 10" d; 12 lb $349

B&W LOUDSPEAKERS

CU810 Preamplifier
Features highly linear MC stage; unbalanced and balanced outputs. Overload margin uses 4 ultra-low-noise multiple transistors in parallel with DC servo feedback loop. Inputs for MM phono; MC



phono; tape; tape 2; aux; CD player; tuner. S/N 108 dB; THD 0.005%; MM phono sens 5.14 mV for 0.5-v ouput at 1,000 Hz. 18.5" w x 3.75" h x 7.25" d; 8.8 lb $2,150

BEDINI

66SPA Preamplifier
Flat preamp; no tone controls. FR 5-35,000 Hz; THD 0.015%; IMD .015%; MM phono overload 500 mV $700

BELLES RESEARCH

XL Preamplifier
Solid-state preamp with MM and MC capability. Features van den Hul silver mono-crystal wiring; Tiffany connectors; Wonder caps; subsonic filter; regulated remote power supply (48 VA); external phono loading capability; 6 stereo inputs including 1 monitor, 2 stereo tape outputs; phono RIAA FR 20-20,000 Hz ± 0.1 dB; S/N 80 dB; THD and IMD 0.05%; 15 lb; 17" w x 3" h x 12" d . $1,249

XLM Preamplifier
Solid-state preamp with user flexibility of functions. Features van den Hul wiring; defeatable subsonic filter and tone controls; switching flexibility for recording and listening at same time; remote power supply to reduce hum and noise. Inputs for MM phono; tape 1; tape 2; CD player; tuner. FR 20-20,000 Hz ± .25 dB; S/N 85 dB; THD 0.05%; MM phono sens 1.33 mV for 0.5 volt output at 1,000 Hz; MM phono input overload level 180 mV at 1 kHz; sens for line-level inputs 1.2 mV; 11 lb; 17" w x 2" h x 10" d..... $495

BERNING

TF-12 Preamplifier
Dual-mono tube preamp with all-differential triode design and no negative feedback. features digitally controlled switching matrix (1-dB steps over 80-dB range) for volume and balance functons to avoid colorations; LED dot-matrix displays relative levels of both channels in dB's; high-frequency resonant power supply; wireless remote control of volume, balance, and mute; high-gain line section (36 dB). Inputs for MM phono; MC phono; tape; AUX; CD player; tuner; video. FR 5-100,000 Hz ± 3 dB; MM phono sens 0.2 mV for 0.5-V output at 1,000 Hz; sens for line-level inputs 20 mV. 19" w x 3.5" h x 12" d; 15 lb $3,000

TF-10 AH Preamplifier
Stereo tube-FET hybrid preamp with low coloration, 2 sets of individually buffered tape outs, remote control mute, full recording facilities, switching power supply, passive phono EQ (RIAA 20-20,000 Hz ± 0.25 dB). Inputs for MM phono, MC phono, tape, tape 2, AUX, AUX 2, phono 2, phono 3, tuner. FR 10-100,000 Hz ± 0.5 dB; max output 8 V; total distortion 0.5%; MM phono sens 1.2 mV for 0.5-V output at 1,000 Hz; MM phono input overload level 250 mV, sens for line-level inputs 100 mV; 19± w x 3.5" h x 12" d; 12 lb $2,095
TF-10 A. As above except no MC input . $1,845

BOULDER AMPLIFIERS

Modular Preamp System
Each module has gold-plated connectors, uses common power supply and measures 4.2" w x 3.5" h x 14.25" d.
MS11. Phono preamp module does RIAA EQ and gain; 2 990 amps/ch; gain adjust; inputs for high-level MC and MM; max gain 46 dB; optional input for low-level MC's has 20-dB gain; RCA inputs standard, 3-pin optional; unbalanced RCA outputs; solid-state balanced output for pro use $699
Factory-Installed Options: Triple F switchable Bessel 3-pole low-cut filter at 10, 20, or 30 Hz $101
3-pin connectors for unbalanced feed to balanced input (in addition to RCA connections) $35
Solid-state balanced output; inverting BA990's, 3-pin connectors $292
Field-Installed Options: Solid-state MC input, bridging, with 20-dB gain $253
Transformer MC input; with Jensen MC transformers $489
MS21. Selector-switch module with inputs for phono, CD, tuner, tape 1 and 2, aux; dubs between decks $409
MS31. Output-controller module sets volume and balance, switches stereo/mono, normal/reverse image, and mute (–20 dB); unbalanced output; RCA connectors; optional 3-pin connectors $562
MS32. Similar to MS31 except adds high-imp buffered inputs, Penny & Giles volume control, individual-ch polarity switches. Optional balanced input..... $977
Factory-Installed Options: 3-pin connectors for unbalanced out in addition to RCA connectors $35
Solid-state balanced output adds inverting BA990's, 3-pin connectors $292
MS01. Power supply module for up to 4 of above modules; bidirectional tracking voltages; toroidal power transformers; oversize heatsinks; current limiting; LED indicates power or unregulated voltage..... $469

PRICES LISTED
are manufacturers' suggested retail prices
(also referred to as *list* prices);
actual selling prices are set by individual dealers.
All prices are subject to change without notice.

CP02. Short power cable (1 needed for each module) $21
CP06. Long power cable (1 needed for remoting phono preamp) $26
MF1. Mainframe houses 1 of above modules $155
MF2. Mainframe houses 2 of above modules. Half rack size $163
MF4. Mainframe houses 4 of above modules. Full rack size with removable rack-mount ears . $211
MS00. Blank module panel for covering unused slots $55
CA06. 6-ft pair interconnects for connecting phono preamp remotely $47
CA01. 8" pair of gold-plated RCA interconnects for connecting modules in frame $39
Price varies with options: complete system with MS11, MS21, MS31, MS01, MF04, CP02, and CA01 ..... $2,744

BRYSTON

12B Preamplifier
Control amp can play 1 source while taping or remoting another. Features stereo/mono/mute switch; 14-V headroom. Inputs for MM phono, MC phono, tape, tape 2, CD player, tuner; video. S/N −84 dB; THD 0.005%; 19" W x 1.75" H x 11" D $1,500
11B. Second MM input instead of MC input $1,100

.5B Preamplifier
Basic preamp with inputs for MM phono, tape, CD player, tuner. FR 20-20,000 Hz ± 0.1 dB; max output 14 V; THD 0.005%; IMD 0.005% IHF; 19" w x 1.75" h x 9" d; 9 lb $600

4-Way Switch Box
No active components; designed for high-current applications. For Bryston equipment only $195.00

CAMBRIDGE AUDIO

C75 Preamplifier
Inputs for MM/MC phono (switchable), tape, tape 2. Features dubbing capabilities; straight-line design; solid-wood end panels. FR flat within 0.1 db 20-80,000 Hz; THD 0.005% 20-20,000 Hz; max output 12 V; MM input 2.6 mV at 47 kilohms; MC input 0.3 mV at 47 kilohms; S/N MM 82 dB, line 96 dB. 17.5" w x 2.5" h x 11" d; 12 lb.... $599

CANTON

EC-P1 Preamplifier
Hand-wired preamp with gold-plated connections. Inputs for magnetic and dynamic pickup systems (with level R.Q.), CD player or PCM tape deck, tuner, 2 tape decks, AUX, MM & MC phono. Provides hook-up for EQ loop. 2 RCA outputs and 1 Cannon jack. THD 0.004%; MM phono seAns 2 mV for 0.5 V ouput at 1,000 Hz; sens for line-level inputs 200 mV. 17.13" w x 2.76" h x 9.45" d; 13.44 lb $2,000

CARVER

4000-t Sonic Holography Preamplifier
With Sonic Hologram Generator designed to recreate 3-dimensional sound field of recording site and locate instruments precisely in space. Features MC preamp; surround-sound decoder; Digital Time Lens; Auto Correlator NR; L and R bass and treble controls with turnover frequency switches, tone defeat; cartridge matching; 2-way tape dubbing, monitoring; external signal processor input; infrasonic filter. NR 20 dB (20-200 Hz), 10 dB (2,000-20,000 Hz); Sonic Hologram image resolution 5° horizontally, 20° vertically; 19" w x 8" d x 6.25" h $1,199

C-1 Sonic Holography Preamplifier
Features Sonic Hologram Generator; separate L and R bass and treble controls, tone defeat; MC phono input; 18 dB/octave infrasonic filter; tape/source monitor with 2-way tape-dubbing; provision for external processor $599

C-2 MM/MC Preamplifier
Switchable input for MM or MC cartridges; infrasonic filter (18 dB/octave below 20 Hz); bass and treble controls; tone control bypass; 2 tape inputs; provision for 2-way dubbing; AUX input; external processor loop; mode switch; rear-panel jack for high-level gain; dark pewter front . $399

CELLO

Audio Suite
Open-architecture mainframe accepts up to 10 slide-in vertical modules for phono, tape, CD, video, and tuner inputs; houses pro modules including mic preamp/mixers, tape head recording and mastering amplification, upcoming digital-to-analog convertors, monitor amps for headphones or speakers. Can control multi-room and multi-media systems.
Mainframe chassis $1,500
P101. MC phono input module $3,000
P100. MM phono input module $1,700
P100. High-gain MM phono input module $1,700
P200. Tape input module $1,000
P200. CD input module $1,000
P200. Tuner input module $1,000
P200. Aux input module $1,000
P200. Video input module $1,000
B301. Output module $1,000
B100. MM phono input module $1,000
B201. Camac line input module $700
B200. RCA line input module $600
P301. Output module $2,700
P300. Output module $2,300

Accessories
Blank bay assembly $35.00
Blank front plates $21.50
Blank rear plates $13.50

Etude Control Unit
4 inputs for sources such as CD players, tuners, tape, and video; 59-position volume control $1,000

Master Supply
120 V AC $2,250

CONRAD-JOHNSON

Premier Three Vacuum-Tube Preamp
With low-noise precision metal-film resistors; polystyrene capacitors in audio circuitry; facilities for 2 tape recorders; 2-way dubbing; phono, tuner, AUX inputs; 2 amp outputs; front-panel mute control. FR 20-20,000 Hz ± 0.25 dB phono; S/N 70 dB below 10 mV phono, 84 dB below 2.5 V output high level; THD and IMD 0.05%; gain 40 dB phono, 29 dB high level; max output 25 V; phono overload 500 mV at 1 kHz; 14" W x 11.25" D x 4.75" H $2,950

PV5 Vacuum-Tube Preamp
With cathode follower outputs and solid-state voltage regulator designed for minimal AC imp; regulated filament supplies virtually eliminate infrasonic noise resulting from AC line fluctuations. Features 1% tolerance mil-spec deposited tin-oxide audio circuit resistors; audio circuit capacitors are polystyrene di-electric; volume control tracks within 0.5 dB; auto muting at turn-on, turn-off; 2 tape recorder loops with 2-way dubbing; 5-function mode switch; precision tracking volume control. Max output 40 V rms; FR 2->100,000 Hz; <0.5% THD and IMD; hum and noise 20-20,000 Hz, phono 72 dB below 10 mV input, high level 84 dB below 2.5 V output; output imp <200 ohms; 15 lb $1,485

PV7 Vacuum-Tube Preamp
Stereo preamp with low-noise metal film resistors, polypropylene and polystyrene capacitors in audio circuitry, 2-deck tape monitoring with 2-way dubbing; inputs for phono, tuner, tape, AUX; 2 amp outputs. FR 20-20,000 Hz ± 0.25 dB phono; S/N 70 dB below 10 mV in phono, 84 dB below 2.5 V out high-level; THD and IMD 0.05%; gain 35 dB phono, 28 dB high-level; max output 25 V; phono overload 500 mV at kHz; 14" w x 11.25" d x 4.75" h $695

CONVERGENT AUDIO TECHNOLOGY

SL-1 Preamplifier
Preamplifier with all-vacuum-tube design. Features 12 separate regulators, with 1 for each stage; adjustable loading; external power supply; switched metal film resistors for volume and balance controls. Inputs for MM phono; MC phono; tape; aux; CD player; tuner; video. FR 0.1-1 MHz ± 3 dB; S/N 90 dB; THD 0.0005%; MM phono sens 0.125 mV for 0.5 V output at 1,000 Hz; MM phono input overload level 250 mV at 1,000 Hz; sens for line-level inputs 25 mV; 28 lb; 19" w x 5.24" h x 12.5" d $3,750

COUNTERPOINT

SA-11 Line-Level Control Amplifier
Full-featured line-level control center includes industrial-grade stepper motors to control 2 massive custom-built 41-position attenuators. Features full vacuum-tube power supply and audio circuitry; wireless hand-held remote control; Isolinear design for max isolation and extreme linearity. Inputs for tape; tape 2; aux; CD player; tuner; video. 19" w x 6.7" h x 19" d; 70 lb $3,995

SA-9 Phono Equalizer/Preamplifier
Full-vacuum-tube phono-cartridge preamplification and equalization system with completely independent MC and MM circuits. Isolinear design for max isolation and extreme linearity. Inputs for MM and MC phono. 25 lb $1,995
SA-9/11 Combo. Features, functions, and inputs of SA-9 and 11 combined $5,990

SA-5.1 Preamplifier
Preamp with inputs for MM phono, MC phono, tape, tape 2, AUX, CD player, tuner. FR 0.5-88,000 Hz ± 0.1 dB; max output 70 V; THD 0.08%; IMD 0.08% IHF; MM phono sens 0.5 mV for 0.5-V output at 1,000 Hz; MM phono input overload level 700 mV; 19" w x 2.03" h x 17.03" d; 24 lb $1,795

SA-3.1 Preamplifier
Preamp with inputs for MM phono, MC phono, tape, tape 2, AUX, CD player, tuner. FR 2.5-30,000 Hz ± 0.1 dB; max output 70 V; THD 0.18%; IMD 0.18% IHF; MM phono sens 2.5 mV for 0.5-V output at 1,000 Hz; MM phono input overload level 800 mV; 19" w x 2.03" h x 17.33" d; 18 lb $995

SA-2 Preamplifier
Preamp with inputs for MC phono. FR 0.5-350,000 Hz; max output 38 V; 19" w x 2.03" h x 17.03" d; 18 lb $995

SA-7.1 Preamplifier
Preamp with inputs for MM phono, MC phono, tape, CD player, tuner. FR 2-30,000 Hz ± 0.1 dB; max output 30 V; THD 0.25%; IMD 0.3% IHF; MM phono sens 0.8 mV for 0.5-V output at 1,000 Hz; MM phono input overload level 500 mV; 19" w x 2.23" h x 7.1" d; 13 lb $595

SA-6 Preamplifier
Preamp with inputs for MC phono. Max output 30 V; THD 0.06%; IMD 0.07% IHF; 19" w x 2.03"

h x 7.75" d; 10 lb $450

DB SYSTEMS

DBR-15B & 2A Preamplifier
Rack-mount precision preamp and tone control with power supply. Combines DB-1B, DB-5 in a 19" rack unit. Auxiliary cable included ... $935
With oak cabinet $1085

DB-1A & 2A Preamplifier
Stereo preamp with separate DB-2A regulated power supply. THD ± 0.0008%, 20-20,000 Hz; IMD ± 0.001%; FR phono 10-40,000 Hz ± 0.07 dB, high-level 2-50,000 Hz +0, −1 dB; S/N A-wtd 89 dB phono, 90 dB line; filters: low-cut flat, 20 Hz, 36 Hz at 6 dB/octave phono only, high-cut flat, 5 kHz, 10,000 Hz at 6 dB/octave; output imp 1 kilohm; max output voltage 6 V into 10 kilohms/3,000 pF; input sens for 1 V output: phono 2 mV into 50,000 ohms/100 pF, high-level 120 mV into 50 kilohms; 8.5" x 7" x 3.2" $495
DB-1B & 2A. DB-1A with low-noise high-level stage (−94 dB ref 1 V), reduced crosstalk, tight tracking volume control, all gold-plated jacks and solid oak cabinet with hand-rubbed tung-oil finish. 12" w x 3.6" h x 7" d $650
DBR-1A. Same as DB-1A except mounted on 19" rack. Includes DB-2 A power supply . $535
DB-1A-HL & DB-2A. Preamplifier similar to DB-1A with 5 high-level inputs and no phono section. FR 1-250,000 Hz ± 3 dB; S/N 92 dB; THD 0.0006%; sens for line-level inputs 120 mV $375
DB-1B-HL & DB-2A. Preamplifier similar to DB-1A-HL with lower noise (−94 dB ref 1 V); reduced crosstalk; tight tracking volume control; loudness compensation switch; gold-plated jacks; and solid oak cabinet with hand-rubbed tung-oil finish $530

dbx

CX1 Preamplifier
Audio/video preamplifier with a 2-channel switchable all-digital delay for ambience recovery. The built-in Dolby Pro Logic surround system has a 5-ch calibration signal and input-level adjustments for precise setup. Inputs for MM and MC phono, tuner, CD player, VCR, AUX, and 3 tape decks or 2 tape decks and 1 VCR (with video). Outputs for front L&R and side/rear stereo or Dolby Surround with center ch, 3 stereo-to-tape jacks, and a video-signal monitor. Features stereo audio external-processor loop; audio/video dubbing; independent recording and listening selectors; switchable tone controls (conventional bass/treble curves or low-bass only/spectral tilt); switchable infrasonic and high filter for all sources; precision-tracking 5-ch volume control; ch-mode controls for L/R stereo, RL reverse, L or R only, L+R mono, and L-R positions; headphone jack; anti-resonance chassis and aluminum feet $1,500

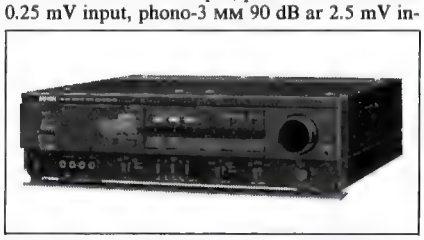
DENNESEN ELECTROSTATIC

JC-80 Preamplifier
Dual mono, all FET, DC-coupled, fully complementary, push-pull, A preamp. No interstage coupling caps; feedback input stage; virtually unslewable; passive RIAA; each stage separately regulated. Completely mono, invertable phase. MM phono, MC phono, tape 1, tape 2, AUX. FR 1-15,000 Hz ± 0.1 dB; max output 20 V; THD 0.005%; IMD 0.005%; MM phono sens variable mV for 0.5 output at 1,000 Hz; MM phono input overload level 350 μV; 19" w x 1.75" h x 12" d; 10 lb ..... $2,250 ea

Sirius Preamplifier
Full-featured straight-line preamp with split passive RIAA and FET input. Inputs for MM phono, tape, tape 2, AUX. FR 5-100,000 Hz ± 0.1 dB; max output 10 V; THD 0.01%; IMD 0.01%; MM phono sens 2.5 mV of 0.5 V output at 1,000 Hz; MM phono input overload level 200 mV; sens for line level inputs 125 μV. 19" wide x 2" high x 8" deep; 7 lb $489
Sirius II. Dual mono; Includes external power supply $650

DENON

PRA-2000Z Preamplifier
Inputs for 2 MC phonos, 1 MM phono, tape, tape 2, AUX, tuner, CD. Equalizer amplifier: input sens/imp phono-1 MC 0.1 mV/40 ohms, phono-2 MC 0.12 mV/100 ohms, phono-3 MM 2.5 mV/47 kilohms; max input level phono-1 MC 20 mV (1,000 Hz), phono-2 MC 24 mV (1,000 Hz), phono-3 MM 500 mV (1,000 Hz); THD phono-1 <0.001% 1,000 Hz 20 V output, phono 2,3 <0.0015% 20-20,000 Hz 3 V; S/N A-wtd phono-1 MC 80 dB at 0.25 mV input, phono-2 MC 75 dB at 0.25 mV input, phono-3 MM 90 dB ar 2.5 mV in-



put; sep 20 Hz-1,000 Hz 80 dB, 20,000 Hz 70 dB. Flat amplifier: input sens/imp 150 mV/47 kohms; THD <0.0015% (20-20,000 Hz, 4 V output); FR 1-300,000 Hz +0, −3 dB; S/N A-wtd 105 dB; sep 20 Hz 100 dB, 1,000 Hz 75 dB, 20,000 Hz 65 dB $1,600

DAP-5500 Digital Preamplifier
Preamplifier with built-in D/A converter. Digital section features 4 DA push-pull Super Linear Converter system; separate digital and analog chassis; 3 digital inputs (1 optical, 2 coaxial); coaxial digital tape-monitor loop; 4-times oversampling digital filter; optical isolators between digital and analog sections; D/A converter output jacks. Audio section features Unity Gain Interface amplifier; Cannon-type input/output; 2 RCA line-in; 1 RCA line out; front-panel mounted RCA input/output jacks; two tape loops; source direct switch; separate power supplies for digital section and analog section; nonresonant, vibration-resistant chassis to reduce the effects of microphonic and acoustic feedback. 17.09" w x 5.2" h x 15" d $1,400

PRA 1100 Preamplifier
Features unity-gain interference-output amp; variable loudness; 5 audio, 3 video inputs; MC/MM inputs $425

DNM BY MUSIC HALL

Series 3 Preamplifier
Full Star-Earth return system; DNM Filmcap electrolytic capacitors; nonconducting acrylic case; Twin 3 power supply $3,000
With more complex (Six-3 type) power supply $4,000

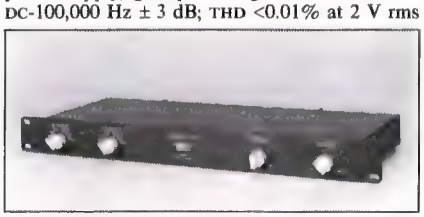
ELECTROCOMPANIET BY MUSIC AND SOUND IMPORTS

Electrocompaniet preamps feature FR 5-100,000 Hz ± 0.5 dB; max output 15 V; MM phono S/N 84 dB; high-level sens 100 mV; no tone controls; balance and volume only; MM input imp 47 kilohms; external power supplies.

EC-1 Preamplifier
Includes inputs for moving-magnet and moving-coil phono cartridges, 2 tape recorder or signal-processor loops, and tuner. Inverts phase. Approximately $1,995
PreIIA. As above except no MC phono and no phase inverting. Approx $1,395

FORTÉ AUDIO

Model 2 Class A Preamplifier
Dual-channel, noninverting, hybrid IC/discrete, straight-line preamplifier. Features MM/MC phono inputs; 4 high-level inputs; tape monitor; full record and signal-monitor routing ability; selectable-gain cartridge section; internally selectable cartridge loading; all gain stages biased for pure class A operation at all signal levels; external power supply; gold-plated signal connectors. FR DC-100,000 Hz ± 3 dB; THD <0.01% at 2 V rms



out 20-20,000 Hz into 10 kilohm load; phono section S/N >80 dB; high-level section S/N >100 dB. Front-panel controls allow selection of program source for monitoring or recording, tape monitoring, recorder disengagement (removes recoreder's input characteristics as a load factor for other source equipment), channel balance, audio level. 19" w x 1.75" h x 7" d $775

HAFLER

DH-110 Discrete Preamplifier
Preamplifier operates all discrete devices (no integrated circuits in signal path) in full symmetry format. Controls: volume, balance, bass, treble, input selector, phono selector, monitor selector, mono/stereo, high-pass filter; external processor loop, tone control engage. Features rack-mounting capability; single active circuit board; step-action volume control; integral muting circuit; 2 pairs of audio outputs; low-imp power supply; full power bandwidth to 200,000 Hz; 2 phono, tuner, AUX, 2 tape deck, EPL inputs; 2 tape (buffered), 2 line, EPL outputs; headphone jack. THD <0.0006% at 1,000 Hz, 3 V RMS; phono input FR 20-20,000 Hz +0-0.25 dB; S/N weighted 87 dB; rated output 3 V rms, 4-210,000 Hz; THD <0.001% 20-20,000 Hz; 17" wide x 3" high x 8.5" deep; 10 lb.
Assembled $450
Kit $375

DH-100 Preamplifier
"No frills" preamp with RIAA EQ utilizing 1%-tolerance components; low-imp power supply; power on delay circuit; Inputs for MM phono, tape, AUX, tuner. Features volume, balance, treble, bass, tape monitor, power controls; 2 switched outlets. FR 20-20,000 Hz ± 0.25 dB; max output 8 V; THD <0.005%; IMD below residual noise of current test instruments; MM phono sens 10 millivolts for 0.5-V output; 13.5" wide x 3" high x 9" deep; 7 lb.
Assembled $225
Kit $175

The listings are based on data provided by the manufacturers. For more product information, contact an authorized dealer or the manufacturer directly. Manufacturers' addresses and phone numbers are listed in the directory beginning on page 226.

HARMAN KARDON

Citation Twenty-One Preamplifier
Inputs for CD, CD direct, video sound, tuner, phono, 2 tape decks; ultrawideband fully discrete circuitry; low negative feedback; active/passive symmetrical RIAA EQ; gold-plated jacks; mono switch; low-noise transistors; discrete MC head amp; subsonic filter (6 dB/octave, <3 at 15 Hz); phase-correct loudness (+10 at 50 Hz, +3 at 250); bass and treble max boost/cut 10 dB; tone defeat. Max output 10 V $495

HEYBROOK BY D'ASCANIO AUDIO

C-2 Preamplifier
Hand-assembled preamplifier with versatile input selections and black finish. Features special circuitry for CD input to prevent overloading; aluminum chassis; rear-panel power switch. Inputs for MM and MC phono, tape, AUX, CD player, tuner, and video. FR 10-50,000 Hz ± 3 dB; MM phono sens 85 mV for 0.5-V output at 1,000 Hz; line-level sens 160 mV. 17" x 3" x 13" $798

HITACHI

HPT120AVSW AM/FM Preamp/Tuner
Quartz digital-synthesized tuner section; 20 AM/FM presets; unified infrared remote control with LCD display; audio inputs for phono, CD, tape; video inputs for TV, VCR, videodisc player; electronic volume and balance controls; 5-band graphic equalizer; video signal enhancer; rosewood end caps $450

JADIS BY MADRIGAL

JP-80 2-Part Tube Preamplifier
2 separate chassis (preamp and power supply). Uses no directly-delivered voltages to avoid noise generated by main input voltage. High voltage generated by custom-built oscillator circuit and amp. Inputs for MM phono; tape; aux. S/N 46-60 dB; MM phono sens 5 mV for 0.5-V output at 1,000 Hz. 48.5 lb $7,600

JVC

PL10 Precision Control Preamplifier
Features Gm processor; ultra-high-sensitivity head amp. Inputs for MM phono, MC phono, tape, tape 2, AUX, phono 2, tuner. THD 0.002%; MM phono sens 2.5 mV for 0.15 V output (rec out) at 1,000 Hz; MM phono input overload level 300 mV; sens for line-level inputs 150 mV. 18.12" w x 5.69" h x 16.56" d; 26.4 lbs $1,650

KENWOOD

Basic C2 Preamplifier
Preamp with 2-step MM and 3-step MC inputs. Features single NFB-loop phono equalizer amplifier; 2-way tape dubbing with monitoring; source (rec out) tape selector; 2 AUX/video inputs; Kenwood NF-CR tone controls with selectable turnover; Super-coupled volume control for low noise at low volume; 4-way filter system; loudness switch; mono/stereo switch; headphone jack with level control; output on/off switch; power and output LED indicators. FR 1-350,000 Hz –0.3 dB; THD 0.002% phono, 0.001% line; input sens/imp MM 2.5 mV/47 kilohms, line 150 mV/47 kilohms; S/N 110 dB; MM 88 dB; 17.31" w x 3.06" h x 12.63" d; 9.9 lb $310

Basic C1 Preamplifier
Features CD/AUX input; MM/MC cartridge selector; advanced single NFB loop phono equalizer amplifier; 2 tape inputs with dubbing and monitoring; subsonic filter; continuously variable loudness control; Kenwood NF-CR tone controls; LED input indicators; power-on muting relay. FR 1-250,000 Hz –0.3 dB; THD 0.005% phono, 0.004% line; input sens/imp MM 2.5/47 kilohms, line 150 mV/47 kilohms; S/N 108 dB; MM 87 dB; 17.31" w x 3.06" h x 12.88" d; 9.3 lb $240

KC-206 Audio/Video Preamplifier
Audio/video preamp with unified remote control. Features 7-band graphic equalizer; CD input; 2 video sound inputs; 2-way tape dubbing with monitor; FL display; EQ recording switch; subsonic filter; auto-function selector system (main/remote). FR 10-70,000 Hz –3 dB; input sens/imp 150 mV/33 kilohms (line), 2.5 mV/47 kilohms (phono); 6.6 lb $230

KINERGETICS

KPA-1 Preamplifier
Designed to eliminate hysteresis distortion; MC phono, MM phono inputs, 2 tape loops; remote power supply; adjustable imp and capacitance for phono inputs; polarity switch. FR 2-500,000 Hz; slew rate >20 V/μsec; gain 60 dB; 20 lb; 19" w x 2.5" h x 16.25" d $795

KLYNE AUDIO ARTS

SK-5A Preamplifier
Full-function stereo preamplifier with ultra-low distortion and high-resolution design. Features control to invert absolute phase; balanced differential outputs. Inputs for tuner; CD/AUX; tape; phono (MC or MM). Output imp 300 ohms; input imp phono 0-47,000 Hz, line 100,000 Hz. 2.5" h x 19" w x 12.5" d; 12 lb $3,250
SK-4A. Straight-line version of SK-5 without line amps, phase inversion switch and mode switch $2,450
With optional line amps installed $2,695

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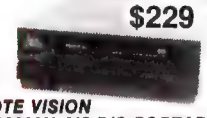
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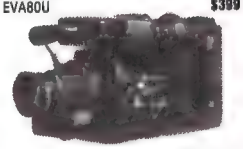
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PANASONIC PV350 1 LUX SUPER VHS CAMCORDER
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KYOCERA

C-910 Preamplifier
Control preamp with input and output level controls. Features complete DC configuration; cutless-core power transformer; single-stage push-pull amplification. Inputs for MM phono, MC phono, tape, tape 2, AUX, phono 2, CD player, tuner/aux 2. FR DC-200,000 Hz ± 3 dB; max output 2 V at rated input; THD 0.003%; MM phono sens 2.2 mV for 0.5 V output at 1,000 Hz; MM phono input overload level 300 mV; sens for line-level inputs 125 mV; 17″ w x 5.75″ h x 13″ d; 22 lb $1,200

LAZARUS

Cascade Basic Preamplifier
Tube preamp with inputs for MM phono; tape; tuner. FR 10-32,000 Hz ± 3 dB; S/N 90 dB; THD 1.2%; MM phono sens 1.5 mV for 0.5-V output at 1,000 Hz; moving-magnet phono cartridge input overload level >250 millivolts at 1,000 Hz; sensitivity for line-level inputs 50 mV. 19″ w x 1.12″ h x 1.88″ d; 8 lb $599

LINEAGE

CP 100 Control Preamplifier
Class-A preamp with all-discrete audio circuitry. Features full-complementary dsirect-coupled wide-bandwidth design using all Field-Effect transistors; DC servo to eliminate all capacitors in signal path except as required for phono EQ; complementary differential inputs; 2-stage phono EQ; electronic input switching; front-panel phono gain for both MM and MC phonos; rear-panel control with continuously variable resistive cartridge loading; tone controls for low bass and upper treble; tone in, mute, stereo/mono, and ploarity invert switches; gold-plated connectors. Inputs for phono; tuner; CD player; video sound source; aux; 2 tape monitors for 2-way dubbing. Rated output 3 V RMS; max output 15 V. Includes separate power supply to provide 3 switched AC convenience outlets. Matte silver with removable teak pedestal base. Dimensions: 17″ w x 12″ d x 6.36″ h (with base), 17″ w x 12″ d x 5.25″ h (without base) $1,995

LINN PRODUCTS BY AUDIOPHILE SYSTEMS

LK1 Remote-Controlled Preamp
Stereo microprocessor preamp with independently adjustable input-level matching; keyboard lockout; all switching and level adjustments electronic on board. Inputs for MM phono; MC phono; tape; tape 2; AUX; tuner. 10.5″ w x 3″ h x 10.5″ d; 9 lb $845

LOGAN LABS BY SYMDEX

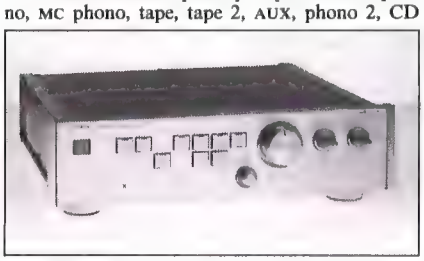
PA-10B Preamplifier
Electron tube phono-only preamp with separate power supply. Features symmetrical layout for both chs; muting function for no system crash due to power loss; slow turn-on circuitry to prevent thermal shock to tubes. Input for MM phono, 1010T is required for moving coils. FR 1-3,000,000 Hz ± 3 dB; max output 160 V; THD <0.2%; IMD <0.2%; separate transformer; 19″ w x 3.5″ h x 7″ d; $5,495
HLE-1010T. Companion pre-preamplifier for moving-coil cartridges to be used in conjuction with PA-10B $3,495

For explanations of abbreviations, specifications, and technical terms, consult the glossary on page 221.

PA-101 Preamplifier
Hybrid FET and electron tube preamp with enough gain for even lowest output MC cartridges. Features separate transformer; adjustable imp loading with custom select setting; muting function for no system crash due to power loss; slow turn-on circuitry to prevent thermal shock to tubes. Inputs for MC phono, 2 line level. FR 1-1,000,000 Hz ± 3 dB; max output 160 V; THD <0.2%; IMD <0.2% sens for line-level inputs 300 mV; 19″ w x 1.75″ h x 7″ d; separate transformer $2,395

LUXMAN

C-05 Preamplifier
Duo-Beta/S Class A preamp. Inputs for MM phono, MC phono, tape, tape 2, AUX, phono 2, CD



player, tuner. FR 2-100,000 Hz ± 0.5 dB; max output 18 V; THD 0.005%; 18.12″ w x 5.25″ h x 17.44″ d; 24.3 lb $2,200

C-02 Preamplifier
Duo-Beta/S preamp. Inputs for MM phono, MC phono, tape, tape 2, AUX, CD player, tuner. FR 10-100,000 Hz ± 1 dB; max output 18 V/100 ohms; THD 0.005%, 0.007% MC; 17.81″ w x 3.19″ h x 12.16″ d; 15.4 lb $600

F-105 Surround Sound System Remote
Full remote-control-system center with surround sound. Provides inputs/outputs for complete system. Integrated amp, EQ, tuner, CD, turntable, 2 tape decks, 2 VCR's, LaserDisc player, and video monitor or TV with video input. Switchable dubbing for audio/video; 25 W/ch rear speaker amp; Dolby Surround sound; time delay surround; includes input for connecting external remote control sensors for A/V remotes. 17.25″ w x 2.94″ h x 11.88″ d; 13.2 lb $550
U-100 A/V System Controller. Same as above without surround sound $350

MARK LEVINSON BY MADRIGAL

ML-6B Modular Preamps
Mono preamps in 2 separate chassis (with separate power supplies) with only essential control functions and connection. L-series open-frame plug-in modules; all audio circuitry completely discrete and operates in Class-A; each chassis has 1 L1 line amp and 1 phono amp module for any cartridge; L1 provides up to 26 dB gain with 0.003% THD typical and 0.002% IMD; S/N 100 dB (unwtd below 2 V reference); gain of L2 phono module 38 or 44 dB; L3 gain 67 dB; L3A gain 55 dB. Phono module THD ± 0.008%, IMD 0.005%. PLS-154 power supply maintains load regulation of 0.05% with wideband noise output 18 μV. Camac connectors for all input and output connections; gold-plated cartridge-loading sockets on main circuit board and internal switches to select 10, 20, or 26 dB of line gain. Hand-brushed black anodized finish. ML-6B: 2.25″ H × 19″ W × 8″ D. PLS-154: 4.36″ h x 4″ w x 10.62″ d. 12 lb. With L2 ..... $7,050/pr
With L3 or L3A $7,780/pr

ML-7A Preamplifier
Inputs for 5 line sources, monitors 2 tape decks, with choice of 3 plug-in phono sections for virtually any cartridge. All audio circuitry completely discrete and operates in Class-A mode. Fitted with 2 L1 line amps. PLS-154 power supply maintains load regulation of 0.05% with wideband noise output of 18 μV; external 5-pin self-locking connector parallels. Camac phono inputs for cartridge loading; 10 or 20 dB of line gain. L1 provides up to 26 dB of gain, with 0.003% THD and 0.002% IMD typical, typical S/N of 100 dB unwtd below 2 V ref. Hand-brushed black anodized finish. ML-7: 2.25″ h x 19″ w x 10.12″ d; PLS-154: 4.36″ h x 4″ w x 10.62″ d; 14 lb. With no phono section $4,450
With L2 phono module. Gain 38 or 44 dB$5,400
With L3 or L3A. L3 gain 67 dB; L3A gain 55 dB $6,050

ML-10A Stereo Preamplifier
Simplified version of L-series circuitry in single circuit board configuration. All audio circuitry completely discrete and operates in Class A. Inputs for 2 line sources, monitors tape deck, phono section for virtually any cartridge. Camac connectors. Line section provides up to 22 dB of gain with typical distortion of 0.004% THD and 0.004% IMD and typical S/N of 95 dB unwtd below 2 V reference. Phono section offers selectable gain of 42, 53 or 63 dB. Six internal switches and gold-plated loading sockets allow infinite cartridge-loading capability. Typical distortion for phono circuit are 0.014% THD and 0.005% IMD and S/N typically −72 dB. Internal power supply with high-speed push-pull regulator; biased for Class A; load regulation of 0.05%; wideband noise output 23 V; 7 or 17 dB line gain. Hand-brushed black anodized finish. 2.25″ h x 19″ w x 10.12″ d; 8 lbs $3,325

ML-12A Stereo Preamplifier
For use with ML-11 power amp, or with other power amp if used with PLS-124 power supply (see below). Inputs for MM phono, MC phono, tape, AUX, tuner. Phono section accepts any cartridge, gain 42, 53, or 63 dB and gold-plated sockets for precise cartridge loading. Line-level section gain 4, 9, 13, or 17 dB to match amps, speakers, sources. Gold-plated Camac connectors for inputs and outputs and separate level controls for each section. Hand-engraved black anodized front panel. Phono S/N <75 dB unwtd at 63 dB gain; THD 0.006% and IMD 0.004% SMPTE at 6 V output; S/N <92 dB below 1 V ref; 19″ w x 9.75″ d x 2.25″ h $1,600
PLS-124. Optional power supply with separate rectification and filtering for each ch. Ripple 40 mV before regulation in ML-12A. 7.25″ w x 2.25″ h x 8.62″ d $455

McINTOSH

C-31V A/V Control Center
Audio/video control center with wireless IR remote control. Features McIntosh Electronic Precision Ladder Attenuator; 5-band equalizer; adjustable loudness contour; 9 source inputs; switching of 2 VCR's with two-way dubbing; remote-control expandable allowing remote control to two additional listening areas $1,895
C-34V. A/V control center. 38 lb $2,195

C-30 Stereo Preamplifier
Preamp with inputs for CD, tuner, phono, videodisc, TV, VCR, and Aux. Features two tape monitors with switchable dubbing; two external processor loops; current sensing power outlet activates preamp when component connected to it is turned on; 6 switched, one unswitched outlet; 5-band equalizer; output signal mode selector; variable loudness compensation control; headphone jacks with independent level control. FR 20-20,000 Hz +0 −0.5 dB; max output 10 V; THD 0.007% max from 20-20,000 Hz at 2.5 V rated output; S/N phono 90 dB below 10 mV input; S/N high level 100 dB below rated output; Sensitivity:

phono 2 mV, high level 200 mV, for 2.5 V rated output. Max input signal: phono 100 mV, high level 10 V. Power requirements 120 V, 50/60 Hz, 25 watts. 16" w x 5.44" h x 13" d; 18 lb . $1,649

C-504. Compact stereo preamp $1,090

MELOS AUDIO

GK-1+1 Preamplifier
Vacuum tube preamp with remote power supply and stepped attenuators. 3 selectable MC and MM phono section; each amplification stage powered by one of nine regulated power supplies; passive RIAA EQ; auto muting circuit protection. FR 2-300,000 Hz ± 1 dB; THD 0.07%, 20- 20,000 Hz; S/N 65-85 dB (phono/sensitivity dependent); 19" w x 3.5" h x 13.25" d; 15 lb (preamp); 17.13" w x 3.63" h x 6" d; 10 lb (power supply) $1,295

MERIDIAN BY MADRIGAL

201 Control Unit
Multi-room remote capability and ability to play 2 different sources simultaneously in any combination of 14 remote locations. Inputs for MM & MC phono; tape 1 & 2; aux; CD tuner.... $975
209. Remote master control works with 201 and other Meridian 200-series components; controls 8 inputs, volume, and mute $125

MOTIF BY CONRAD JOHNSON

MC7 Dual-Mono Preamplifier
Dual-mono all-FET preamp with remote power supply. Features precision-matched field-effect transistors for channel-to-channel balance; exclusive use of polystyrene capacitors throughout audio circuits and power supply regulators. Inputs for MM phono, MC phono, tape, tuner. FR 5-100,000 Hz ± 0.5 dB; max output 10 V; THD 0.1%; IMD 0.1% IHF; MM phono sens 0.35 mV for 0.5-V output at 1,000 Hz; MM phono input overload level 150 mV, sens for line-level inputs 50 mV; 19" w x 3.5" h x 12" d; 15 lbs... $3,500

MC8 Stereo Preamplifier
Similar to MC7 except stereo with internal power supply. Inputs for MM phono; MC phono; tape; tape 2; CD player; tuner. FR 5-100,000 Hz ± 3 dB; THD 0.1%; MM phono sens 0.35 mV for 0.5-V output at 1,000 Hz; sens for line-level inputs 50 mV; MM phono input overload level 150 mV at 1,000 Hz. 19" w x 3.5" h x 12" d; 15 lbs. $2,250

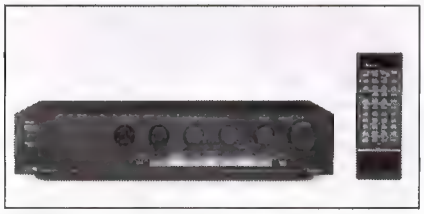
NAD

1300 Monitor Series Preamplifier
Features high-resolution phono preamp; bass EQ; null switch to amplify L–R difference signal; low-noise MC pre-preamp; external processor loop; semiparametric tone controls (bass center switchable to 50, 120, or 250 Hz, treble to 3,000, 6,000, 12,000 Hz) with 1.5-octave bandwidth, 12-dB max boost or cut; 2-way tape dubbing; infrasonic filter. Max output 12 V; RIAA response accuracy ± 0.3 ..... $498

1240 7-Input Preamplifier
Features discrete transistors in phono preamp; inputs for MM or MC phono, CD player, tuner, tape, video, aux 1, aux 2; treble boost or cut max 7 dB at 10,000 Hz, bass boost or cut max 10 dB at 50 Hz; switchable infrasonic filter down 3 dB at 12 Hz at 12 dB/octave; high-current (15 V) headphone amp; bass EQ; 2 outputs; cartridge capacitance loading $298

NAKAMICHI

CA-7A Control Amplifier
Preamp with full-system wireless remote control of Nakamichi series 7 or 5 components. Features total isolation of digital and analog sections; isolated ground technology; acoustical fine-tuning system; motor-driven volume control; inputs for MM and MC phono, 2 tape, 2 AUX, tuner, CD; 2 outputs; multi-room remote control with RS-7 remote sensor. Input sens/imp MC (switchable) 40-80-160 μV/100 ohms, MM 2.5 mV/50 kilohms, line 150 mV/12.5 kilohms; S/N >94 dB; THD



<0,002%; FR 1-100,000 Hz ± 3 dB. 17.12" w x 3.25" h x 12.19" d; 15 lb, 4 oz $2,395

CA-5 Control Amplifier
Control amp with min controls. Features 2 power outputs (2 amps); 2 tape inputs; hand-selected components. Inputs for MM phono, MC phono, tape, tape 2, AUX, CD player, tuner. FR 1.5-100,000 Hz +0, −3 dB; max output 16 V; THD <0.002%; MM phono sens 0.6 mV for 0.5-V output at 1,000 Hz; MM phono input overload level 170 mV, sens for line-level inputs 50 mV; 17.12" w x 2.5" h x 11.36" d; 8 lbs, 3 oz $750

NIKKO AUDIO

Beta 50II Preamplifier
Dual-input signal-selector preamp with 3 sound-processor input/output terminals $420
Beta 30. Same as above except 1 sound-processor input/output..... $280

NOVA

CPA-100A Preamplifier
All-discrete, all-JFET preamplifier with option for MC amp. Inputs for MM, MC phono; tape; tuner; CD player. Max output 12 V; THD 0.01%; IMD 0.01%; MM phono sens 2.5 mV for 0.5 V output at 1,000 Hz; MM phono input overload level 250 mV; phono gain 34 or 40 dB switchable; line-level sens 98 mV. Black finish with oak side panels. 19" w x 4" h x 9.5" d; 14 lb $1,995
PPA-202. JFET MC head-amp card plugs into CPA-100A. Features selectable input imp; 3 gain settings; MC phono input. High-overload capability allows greater than 1 V rms undistorted output. FR 0.05-1.5 mHz ± 3 dB; S/N 71 dB; THD 0.01%. 6.75" w x 3" h x 1.5" d; 1 lb $300

ONKYO

Grand Integra P-308 Preamplifier
Dual-mono preamp with electrically separate left and right circuitry and 2 sets of preamp outputs: output #1 is from precision-paired master volume control using ALPS potentiometers, output #2 includes fines balance adjustment via stepped left and right precision resistor aattenuators. Features passive tone control system; dual record output selectors; individual stereo/mono switching for output 1 and 2; contra bass equalization. Wood side panels included. Inputs for MM phono; MC phono; tape; tape 2; tape 3; AUX, AUX 2; tuner; CD player and DAT with input common-mode noise filters. FR 0.8-170,000 Hz ± 3 dB; phono S/N 92 dB; THD 0.0005%. 18.25" w x 4" h x 15.88" d; 19 lb $650

Integra P-304 Preamplifier
Dual-mono preamp with electrically separate left and right circuitry. Features direct tone controls with passive equalization; dual record output selectors; adjustable phono gain and load imp. Inputs for MM phono; MC phono; tape; tape 2; tape 3; AUX, AUX 2; tuner; CD player. FR 0.8-170,000 Hz ± 3 dB; phono S/N 85 dB; THD 0.005%. 17.75" w x 4" h x 15.88" d; 16 lb $480

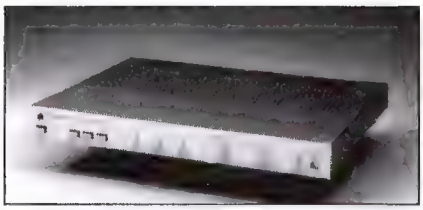
PARASOUND

PR200 Preamplifier
Discrete phono circuitry; variable loudness; bass EQ; signal relay to mute turn-on transients; high voltage rails for high overload capability. Inputs for MM phono, tape, tape 2, CD player/video, tuner. Max output 12.5 V; MM phono sens 2 mV for 0.5-V output at 1,000 Hz; sens for line-level inputs 150 mV; 17.25" w x 2.75" h x 8" d; 8 lb $265

PERREAUX

SM3 Preamplifier
High-voltage MOSFET design; inputs for MM/MC cartridges; tuner; tape, CD. FR 20-50,000 Hz ± 0.25 dB; input sens MC 175 μV rms at1 kHz/47 kilohms, 100 pF, MM 1.8mV rms; AUX/CD 350 mV rms/20 kilohms, all other inputs 100mV rms/25 kilohms; THD/IMD phono 0.005%, all other inputs 0.008%; channel sep 70 dB, 20-20,000 Hz, all inputs. 19" w x 1.75" h x 13.5 d; 12 lb $1,795
SA3 Preamplifier. Similar to above.....$1,195

SX1 Dual Channel Preamplifier
Class-A operation; FET tone control section. FR 20-50,000 Hz ± 0.025%; input sens MC 250 μV rms, MM 2.5 mV, AUX/CD 285 mV rms; THD/



IMD PHONO INPUTS 0.005%, all other inputs 0.009%. 17" w x 2.25" h x 13.5" d; 12 lb . $795

PIONEER

C-90(BK) Audio/Video Preamplifier
Features wireless remote control; motorized rotary volume control; 5 audio inputs; 5 video inputs (3 input/outputs, 2 input only); 3 different power supplies; copper-plated chassis; 2 video outputs; recording selector/tape-dubbing switch; subsonic and high/low filters; loudness, muting, and tone controls; video enhancer (detail, sharpness, and noise cancel). 8.88" h x 21.69" w x 18.88" d$900
JA-RF5. RF modulator converts composite (baseband) video to RF so that video from an A/V system can be viewed on a TV without a video input. Features selectable output frequency; video/TV switch for VHF antenna loop-through; 5-pin DIN connector and F-type for video in/TV out. For use with Pioneer C-90 audio/video preamplifier $50

PROTON

1100 Preamplifier
Stereo preamp with separate MC phono input. Features built-in headphone amp; bass EQ switch; listen/record selector; high-level pre-out 18 V. THD 0.003% (20-20,000 Hz, 2 V output); IMD 0.003% (2 V output); FR 20-20,000 ± 2 dB; high-level input resistance 30 kilohms; line-level input sens 150 μV, 2.5 μV MM phono, 0.2 μV high-level MC, 0.1 μV low-level MC; S/N A-wtd 105 dB line level, 94 dB MM phono, 79 dB MC phono; bass control at 100 Hz ± 10 dB; treble control at 10,000 Hz ± 10 dB; bass EQ at 75 Hz +3 dB; infrasonic filter at 20 Hz -3 dB, slope −12 dB/oct; phono input capacitance selectable between 100,

200, 320 p-f; phono overload MM 290 μV (1,000 Hz, 0.1% THD); MM , phono THD 0.006% at 4.5 V ouptut, 0.01% MC phono; RIAA response ± 0.2 dB MM phono, ± 0.3 dB MC phono. 16.5" w x 2.5" h x 13" d..... $249

1000 Stereo Preamplifier
Features a 20V max high output capability and active volume control; bass EQ switch; Dual Mono Configuration (DMC); active subwoofer crossover output (75 Hz/150 Hz selectable); six source record and listen selections; stereo/mono switch; bass/treble/presence controls; tone bypass; balance control and a −10 dB muting switch. THD 0.003% 20-20,000 Hz 2 V output; FR 20-20,000 Hz ± 0.2 dB; ch. crosstalk 85 dB; S/N (A-wtd) 110 dB (high level input 2 V output), 94 dB (MM 5 mV input), and 80 dB (MC 0.5 mV input) $399

QUAD

Quad 44 Control Unit
Preamp/control system with lift/step bass control to boost low-frequency output of small speakers, attenuate bass output when operating as filter to give 5-dB drop at 2 frequencies; ± 2-dB tilt control that shifts tonal balance; variable filter slope control at 5,000, 7,000, 10,000 Hz; all tone controls have defeat positions; balance/mono switch; radio, aux, disc, tape 1, tape 2 input selectors with optional mic or MC phono inputs available. Input sens/imp 1 mV at 35 mV in/47 kilohms phono, 100 mV at 5 V in/39 kilohms tape, 1 M ohm radio and aux; FR ± 0.5 dB 30-20,000 Hz phono RIAA, 30-20,000 Hz −0, +1 dB; high-level distortion 0.02%; residual noise −104 dB A-wtd; 321 mm w x 207 d x 103 h $995

Quad 34 Control Unit
Preamp control unit with tilt control; bass control; inputs for disc, tape, tuner, aux; 3 push-button filters; bass lift and step. Distortion worst case any input 0.5%. Residual noise A-wtd volume control at minimum −105 dB; FR ± 0.3 dB any input except phono; phono FR RIAA ± 0.5 decibels $695

RCA

MPT200 Audio/Video Preamp Tuner
Dimensia A/V control center with unified remote control and on-screen status indication when used with Dimensia monitor lets you select inputs from up to 13 Dimensia components and 5 non-system components. Features automatic input selection; remote control volume, mute, direct access and station scan, and off/on; SystemLink cabling; simultaneous recording and playback; auto status indication; auto switching; quartz-PLL synthesis tuning; 20-station random tuning memory; preset channel scanning; FM search tuning; electronic volume control; signal-processing loop; preset turn-on volume; fluorescent display; muting; bass, treble, and balance controls; 4 AC convenience outlets. Tuner section: FM sens 12.2 dBf; S/N 73 dB (mono); image rejection 45 dB; sel 60 dB; sep 40 dB at 1,000 Hz; capture ratio 1.5 dB; FM FR 30-15,000 Hz. 14.63" wide x 4.13" high x 13.38" deep $349

REVOX

B285 Preamp/Tuner
AM/FM stereo preamp/tuner with two microprocessors for control of input sensitivities, output levels, and operating functions. Features alphanumeric multi-mode LCD display; 29 AM or FM presets; level and reception mode (mono/stereo, blend) separately programmable for each preset station; programmable volume limit; −20 dB button; subsonic filter; loudness contour; programmable output levels for A and B speaker pairs; comprehensive speaker-protection circuits; serial data bus for external control devices; wireless infrared remote control (transmitter optional). Inputs for phono, tape, CD player, tape 2. FM section: alternate-ch sel 96 dB; adjacent-ch sel 16 dB; 50-dB quieting sens, mono 1.6 μV (15.2 dBf), stereo 19 μV (36.8 dBf); max S/N, A-wtd, mono 84 dB, stereo 80 dB; THD mono 0.15%, stereo 0.3%; sep 43 dB at 1,000 Hz; capture ratio 2 dB. AM section: FR 120-3,000 Hz ± 6 dB; sens 36μV. 17.75" w x 6" h x 13.06" d; 33 lb $2,300

B251 Preamplifier
Microprocessor-controlled preamp with input sensitivities programmable into nonvolatile memory and infrared remote control. Inputs for MM phono; MC phono; tuner; tape; tape 2; AUX; phono 2; CD player; external equalizer. FR 20-20,000 Hz +0, -0.2 dB; THD <0.01%; S/N 96 dB (line input), 75 dB (phono input); MM phono sens 1.6-23 mV for 5-mV output; sens for line-level inputs 160 mV to 2.3 V. 17.7" w x 6" h x 13" d; 15.4 lb $1,400

ROBERTSON AUDIO

Twenty Twenty MC Preamplifier
Preamp with auto-tracking DC servo control to provide low DC offset and drift. Features outboard supply; MC load selector; standby switch. Inputs for MM phono, MC phono, tape, AUX, CD player, tuner, video sound. FR 20-20,000 Hz ± 0.2 dB; max output 14.5 V into 600 ohms; THD 0.005%; MM phono sens 2.6 mV for 0.5-V output at 1,000 Hz; MM phono input overload level 127 mV, sens for line-level inputs 73 mV; 432 mm w x 99 h x 190 d; 23 lb $1,495

ROTEL

RC870BX Stereo Preamplifier
Flat preamp (no tone controls) with inputs for MM phono, MC phono, tape 2. FR 4-100,000 Hz +0.5 dB, −0.3 dB; THD 0.004%; IMD 0.004%; MM phono input overload level 180 mV, MM/MC S/N 80/70 dB..... $399
RC850. Similar to above but has 2 tone controls..... $249

ROWLAND RESEARCH

Coherence One Preamplifier
Solid-state FET preamp with companion regulated power supply. Accepts all MM and MC cartridges directly. Direct-coupled design from input to output. Split-passive RIAA EQ minimizes phono EQ errors. No negative feedback; proprietary design optimizes low-level signal recognition. Provides inputs for 1 phono and 3 high-level inputs. Tape rec outputs selectable from any input. Features phase reversal and full muting from front panel; separate R/L ch balance controls; master volume; balanced outputs standard; outputs mute upon power-up or error. 19" w x 1.75" h x 13" d; 37 lb $3,950

SAE

X1P X-Series Preamplifier
Computer direct-line fully discrete preamp. Features separate power supply, loading for MM and MC phono inputs, rack mountable. Inputs for MM phono, MC phono, tape, AUX. FR 20-20,000 Hz ± 0.1 dB; max output 17 V; THD 0.01%; IMD 0.01%; MM phono sens 0.07 mV for 0.5 V output at 1,000 Hz; 19" w x 1.75" h x 12.5" d; 14 lb $1,200

P102 Preamplifier
Computer direct-line preamp with 3 digital tone memories, electronic volume and balance controls. Features sequential audio muting to provide cross-fade between input sources; alphanumeric displays of all functions. Inputs for MM phono, MC phono, tape, tape 2, AUX, phono 2, CD player, tuner, external processor. FR 20-20,000 Hz ± 0.5 dB; max output 7.5 V; THD 0.025%; IMD 0.025% IHF; MM phono sens 160 mV for 0.5-V output at 1,000 Hz; MM phono input overload level 240 mV, 19" w x 3.5" h x 14" d; 17 lb$399

SANSUI

C-2301 Preamplifier
Vintage series preamp with balanced and unbalanced 75-ohm imp outputs. Inputs for MM phono, MC phono, tape, tape 2, phono, CD player, tuner. FR 5-300,000 Hz 20.2 dB; MM phono sens 2 mV for 0.5-V output at 1,000 Hz; sens for line-level inputs 150 mV/47,000 .....$2,400

C-2102 Stereo Control Center
Vintage series features built-in 2-band parametric EQ; 2 preamp outputs; headphone output; LED indicators for EQ, subsonic, loudness, and muting. Inputs for MM phono; MC phono; tape; tape 2; phono 2; CD player; tuner video; PCM line 1 & 2. FR 0-300,000 Hz ± 3 dB; S/N 88 dB; MM phono sens 2.5 mV for 0.5-V output at 1,000 Hz; sens for line-level inputs 150 mV. 16.94" w x 4.81" h x 12.88" d; 13.2 lb $700

SONOGRAPHE BY CONRAD-JOHNSON

SC1 FET Preamp
All-FET preamp with matched-FET polypropylene and polystyrene capacitors for all audio circuits; discrete power-supply regulation; inputs for phono, tuner, CD, video, tape 1 and 2. FR 5-100,000 Hz ± 0.5 dB; max output 10 V; THD 0.1%; IMD 0.1%; 18" w x 3.5" h x 12" d $595

SOUNDCRAFTSMEN

DX 4200 Preamplifier/Equalizer
Combination preamp/equalizer with digital audio and video inputs. Features in/out balancing to 0.1 dB; phono preamp has variable cartridge loading (50-800 pF, 100/47,000 ohm) adjustable ± 20 dB gain MC variable reluctance or MM cartridge inputs; 3-way tape dubbing; 2 external signal-processor loops; conventional line outputs plus separate autobridge line outputs for auto mono bridging of most amps; EQ S/N 114 dB; passive-coil filters with 15 dB boost or cut for each octave; differential/comparator circuitry for true 0.1 dB unity-gain EQ balancing; 19" rack-mount front panel; includes frequency spectrum analyzer test record and instant reset Computone charts; 5.25" w x 19" h x 11" d..... $699
DX4000. Same as DX4200 without graphic

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349985. Johnny Mathis/Henry Mancini—The Hollywood Musicals (Columbia)

348979. Tina Turner—Break Every Rule (Capitol)

352633. Dolly Parton/Linda Ronstadt/Emmylou Harris—Trio (Warner Bros.)

302570. Mussorgsky: Pictures At An Exhibition; Ravel: La Valse—Mehta, cond. (CBS Masterworks)

336396-396390. Billy Joel's Greatest Hits, Vol. 1 & 2. (Columbia)

324822. Ravel: Bolero; La Valse; Rhapsodie Espagnole—Maazel, cond. (*Digital*—CBS Masterworks)

349324. South Pacific. K. Te Kanawa, J. Carreras, etc. (*Digital*—CBS)

346643. Andreas Vollenweider—Down To The Moon. (CBS)

346478. Madonna—True Blue. (Sire)

343319. Janet Jackson—Control (A&M)

349571. Boston—Third Stage (MCA)

290916. The Best Of Earth, Wind & Fire, Vol. I (Columbia/Arc)

343715. Vivaldi: Four Seasons—Maazel cond. (*Digital*—CBS Masterworks)

319541. Elton John—Greatest Hits. (MCA)

342105. Bangles—Different Light. (Columbia)

356279. Gloria Estefan And Miami Sound Machine—Let It Loose. (Epic)

339044. Mozart: Symphonies 40 & 41 (Jupiter)—Kubelik, Bavarian Radio Or. (*Digital*—CBS Masterworks)

339226. Gershwin: Rhapsody In Blue; more. Thomas, Los Angeles Phil. (*Digital*—CBS Masterworks)

316604. Tchaikovsky: 1812 Overture; Marche Slave; Beethoven: Wellington's Victory—Maazel cond. (*Digital*—CBS Masterworks)

287003. Eagles Greatest Hits 1971-1975 (Asylum)

347492. Glenn Miller Orchestra—In The Digital Mood. (*Digital*—GRP)

293597. Led Zeppelin—Houses Of The Holy. (Atlantic)

350736. Rolling Stones—Rewind. (Rolling Stones Records)

138586. Bob Dylan's Greatest Hits (Columbia)

346957. Steve Winwood—Back In The High Life. (Island)

344622. Anita Baker—Rapture. (Elektra)

319996-399998. Motown's 25 #1 Hits From 25 Years. (Motown)

291278. The Doobie Brothers—Best of the Doobies. (Warner Bros.)

345777. Peter Gabriel—So. (Geffen)

246868. Jim Croce—Photographs And Memories—His Greatest Hits. (Saja)

334391. Whitney Houston. (Arista)

314443. Neil Diamond's 12 Greatest Hits, Vol. 2. (Columbia)

348318. The Police—Every Breath You Take—The Singles (A&M)

308049. Creedence Clearwater Revival Featuring John Fogerty/Chronicle. 20 greatest hits. (Fantasy)

343582. Van Halen—5150. (Warner Bros.)

326629. Bruce Springsteen—Born In The U.S.A. (Columbia)

342097. Barbra Streisand—The Broadway Album. (Columbia)

345827. Bob James and David Sanborn—Double Vision. (Warner Bros.)

219477. Simon & Garfunkel's Greatest Hits. (Columbia)

348649. Pachelbel Canon & Other Digital Delights—Toronto Chamber Orch. (*Digital*—Fanfare)

260638. Chicago's Greatest Hits (Columbia)

346312. Billy Joel—The Bridge. (*Digital*—Columbia)

336222. Dire Straits—Brothers In Arms. (Warner Bros.)

341073. Steely Dan—A Decade of Steely Dan. (MCA)

349373. Beethoven: Symphony No. 9 (Choral) Bernstein, N.Y. Phil. (*Digitally Remastered*—CBS Masterworks)

314997-394999. Stevie Wonder's Original Musiquarium I. (Tamla)

348110. Buddy Holly—From The Original Master Tapes. (*Digitally Remastered*—MCA)

352245. David Sanborn—A Change Of Heart. (Warner Bros.)

351122. Europe—The Final Countdown. (Epic)

346544. Kenny G—Duotones. (Arista)

344721. Lionel Richie—Dancing On the Ceiling. (Motown)

355156. Vladimir Horowitz Plays Favorite Chopin (*Digitally Remastered*—CBS Masterworks)

354985. Billie Holiday—From The Original Decca Masters. (*Digitally Remastered*—MCA)

353037. Miles Davis—Sketches of Spain. (Digitally Remastered—Cl. Jazz Masterpieces)

349613. Original Soundtrack—Round Midnight. (Columbia)

355115-395111. Prince—Sign 'O' The Times. (Paisley Park)

357186. Hooters—One Way Home. (Columbia)

356873. The Outfield—Bangin'. (Columbia)

354100. Crowded House. (Capitol)

353946

353771

355990

355529

351692

356675

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Do you have a credit card? (Check one.) ☐ Yes ☐ No

474/F87

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Note: We reserve the right to reject any application or cancel any membership. 3TY/C3

equalizer but with 2 external signal-processor loops; 3.5" w x 19" h x 11" d $439

Pro Control Four-Control Center/Preamplifier
Digital C-MOS MOSTROL. Features 5 tape monitors for audio or video tape, CD, tuner and phono inputs. 2 signal-processor loops, subsonic filter, and direct mode to bypass all processing. Headphone jack, auto-bridge circuit to triple amplifier output. FR 20-20,000 Hz ±0.1 dB; THD <0.005%; S/N: phono 97 dB, high-level 116 dB. Rack-mount front panel. 19" w x 3.5" h x 10.5" d $699

DX3000 Preamplifier
Features bass and treble controls; 2 tape monitors with dubbing; stereo video inputs; loudness compensation; signal-processor input/output. Inputs for MM phono, tape, tape 2, CD player, tuner, video. CD inputs matched to high dynamic range of players. FR 5-60,000 Hz +0, >1 dB; S/N 95 dB; THD 0.01%; MM phono sens 1.4 mV for 0.5-V output at 1,000 Hz; MM phono input overload level 200 mV at 1,000 Hz; sens for line-level inputs 140 mV. 19" wide x 2.36" high x 10" deep; 10 lb $329

SUMO

ATHENA Preamplifier
Stereo preamp with built-in moving-coil head amp. Features discrete circuitry utilizing 1% metal film resistors and metalized polypropylene capacitors; gold-plated input/output jacks; separate record/mode select functions; linear-phase-matrix subsonic filter; high-level bypass; laser-trimmed stepped volume control. FR 20-20,000 Hz ±0.1 dB; crosstalk 80 dB; THD/IM <0.01% below 10 V output $649

TANDBERG

TCA 3018 Control Preamplifier
Preamplifier with zero-negative-feedback design. All high-level inputs have overload rating of 20 V; toroidal transformer with seperate winding for each ch; seperate power supply for each ch; selected metal-film resistors and polypropylene capacitors; no tone controls; seperate record and program selection. 17.13" w x 3.25" h x 13.75" d; 12.5 lb $2,195

TCA 3038A Control Preamplifier
Fully remote controlled unit similar to above.

Servo controlled volume (when used with remote); tone controls; tone defeat; loudness; MM and MC; DAT, CD, video, and tape inputs. Remote optional. Rosewood panels; 17.13" w x 3.25" h x 13.75" d; 11 lb $995

TECHNICS

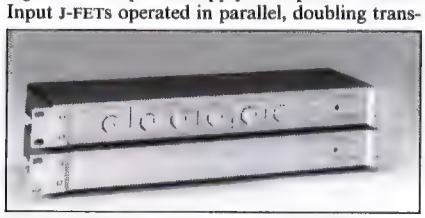
SU-A200 Class AA Preamplifier
Features Class AA circuitry to separate voltage amplification from current amplification for ideal voltage/current phase relationship. Voltage amp operates in Class A driving Class AA bridge circuit which provides ideal load characteristics for max linearity and isolation from imp fluctuations. Class AA EQ circuit isolates voltage amp from load-imp fluctuations. Active Servo power supply provides improved regulation and contributes to low-noise performance. Switches video signals form A/V inputs as well as audio signals from 8 inputs with video output for monitor. Inputs for MM phono; MC phono; tape; tape 2/VCR; aux; phono 2; CD player; tuner; video (AV 1). FR 0.5-180,000 Hz +0, −3 dB. 17" w x 5" h x 14.25" d; 20 lb $1,150

SU-A4MK2 Stereo DC Preamplifier
Features amorphous step-up transformer for extended linear response; full matching phono equalizer for all types of cartridges; all Class A with ICL ultra-low-noise FET input; low output imp allows remote power amp placement; shelving tone controls for EQ; presettable CD/AUX/video input selector; 4-ganged master volume control; infrasonic and high filter switches; loudness contour switch; separate record selector with 2-way dubbing; 2 tape monitors. Maximum output voltage 8 V; 16.94" w x 3.81" h x 14.19" d; 17.6 lb $1,160

SU-A6MK2 Stereo DC Preamplifier
Features shelving tone controls, selectable turnover frequencies, infrasonic filter, audio muting. Inputs for MM phono, MC phono, tape 3, tape 2, aux 2, phono 2, CD player, tuner, computer, VCR, DAT recorder, TV. Max output 8 V; 16.94" w x 3.88" h x 14.19" D $600

THRESHOLD

Model FET ten/hl Control Preamplifier
Dual-ch, high-level noninverting field-effect transistor preamp dedicated specifically to line-level signal applications. Accepts 5 high-level sources (such as compact disc players) and 2 tape decks with full flexibility in record/monitor signal routing. External power supply in separate chassis. Input J-FETs operated in parallel, doubling transconductance and lowering noise and distortion. Secondary gain stages use cascoded MOSFETs to supress voltage fluctuations, allowing low distortion even when driving loads less than 500 ohms. Circuit boards are military-grade glass-epoxy with gold-over-nickel-over-copper-plated paths. Precision metal film and wirewound resistors are used throughout. Bandwidth response 1.5 Hz and 125,000 Hz at −3 dB points; distortion 0.01% at 3 V rms from 20-20,000 Hz into 1,000-ohm load; crosstalk no greater than −75 dB at 20,000 Hz with 1,000-ohm source; noise no greater than −110 dBA referenced to 1 V input; input imp 25,000 ohms, nominal; output imp 100 ohms. Controls for program source selector; record signal routing; monitor signal selection; mode; balance; audio level. 1.75" high x 19" wide x 6.5" deep $1,800



Threshold FET ten/hl control preamplifier (top) and FET ten/pc (bottom).

Model FET ten/pc Cartridge Preamplifier
Dual-ch noninverting field-effect transistor preamp dedicated specifically to phono-cartridge gain applications. Accepts inputs from high- and low-level MC, MM or other velocity-output characteristic phono cartridge and provides RIAA equalized output suitable for preamp high-level inputs. Single gain-variable high-performance stage provides signal increase required by different cartridge types. Combination of active low-frequency and active and passive high-frequency equalization make up RIAA equalization. Up to 16 different cartridge-loading characteristics may be user selected with internal DIP switch assemblies. External power supply in separate chassis. Circuit boards are military-grade glass-epoxy with gold-over-nickel-over-copper-plated paths. Gold-plated connectors with Teflon insulation. Precision metal film and wirewound resistors are used throughout. Crosstalk no greater than −70 dB at 20,000 Hz with 1,000-ohm source; output imp 420 ohms. 1.75" high x 19" wide x 6.5" deep $1,100

Model FET nine Preamplifier
Dual-ch noninverting field-effect transistor preamp. Accepts inputs from high- and low-level MC, MM or other velocity-output characteristic phono cartridge, 3 high-level sources, and 2 tape decks with full flexibility in record/monitor signal routing. Cartridge section uses single gain-variable preamplification stage for MC and MM cartridges. Cartridge loading selected by internal DIP switch assemblies. Signal-path topologies and power-regulation circuits derived from FET ten research. External power supply in separate chassis. Circuit boards are military-grade glass-epoxy with gold-over-nickel-over-copper-plated paths. Gold-plated connectors with Teflon insulation. Precision metal film and wirewound resistors are used throughout. FR 1.5 Hz and 125,000 Hz at −3 dB down points; distortion 0.01% at 3 V rms from 20-20,000 Hz into 10,000-ohm load; high-level input imp 25,000 ohms, nominal; output imp 100 ohms. Controls for program source selector; record signal routing; monitor signal selection; ch balance; audio level. 1.75" h x 19" w x 6.5" d $1,600

WINGATE AUDIO

1000 Remote-Controlled Audio/Video Preamp
Switches 3 video sources; separate audio and video record-out selectors; selectable phase inversion; ultra-low-noise MC phono input; zero-feedback all-field-effect-transistors and pure-Class-A circuitry $2,600
Without remote control $2,200

YAMAHA

CX-10000 Digital Preamplifier
Limited Centennial Edition digital control amplifier with built-in digital sound field processor and D/A convertor. Features hi-bit quadruple oversampling (18-bit quantization at sampling frequency of 176.4 kHz); hi-bit precision D/A con-

PRICES LISTED
are manufacturers' suggested retail prices
(also referred to as *list* prices);
actual selling prices are set by individual dealers.
All prices are subject to change without notice.

PREAMPLIFIERS

version; digital-direct connection; digital input/output port; digital parametric equalizer; 16 memory programs combining digital sound field ambience information and/or digital parametric equalizer; wireless remote control. Titanium grey with high-luster geniune walnut end panels; 65 lb $7,500

HX-10000 Phono Head Amplifier
Limited Centennial Edition phono head amplifier used to increase output of moving-coil cartridges. Features two independent moving-coil head amplifiers (phono 1 and phono 2). S/N 88dB at 250 μV input.Finished in titanium grey with high-luster genuine walnut end panels; total weight 20 lb $2,500

C-85B Preamplifier
Features Zero Distortion Rule (ZDR); DC-servo; current noise suppression; extended roll-off equalizer; continuously variable loudness control; record output selector; 2-band parametric equalizer (adjustable center frequencies, bandwidth, amplitude); inverting preamp output; gold-plated input terminals and headphone jack. Black; 16 lb $799
RMA-C80. Rack mount adaptor for C-85B preamplifier allows mounting in professional-type equipment racks $18

C-65B Preamplifier
Features ZDR (Zero Distortion Rule circuitry); direct-current-servo; current noise suppression; extended roll-off equalizer; continuously variable loudness control; record out selector; bass and treble controls with continuously variable turnover frequencies; gold-plated input terminals and headphone jack. Black; 16 lb $579
RMA-C80. Rack mount adaptor for C-65B preamplifier $18

C-45B Preamplifier
Features multiple audio source inputs; extended roll-off equalizer; continuously variable loudness control; record out selector; bass, treble, and mid-range controls; moving-magnet cartridge switching; gold-plated input terminals and headphone jack. Black; 16 lb $579

INTEGRATED AMPLIFIERS

ACCUPHASE BY MADRIGAL

E-303X 150-W/ch Integrated Amp
Power meters; 3-position loudness compensation; inputs for MM phono, MC phono, tuner, tape, tape 2, AUX, phono 2, CD player, line 2. 150 W/ch into 8 ohms; 250 W/ch into 2 ohms; MM phono sens 0.22 mV for 0.5 V output at 1,000 Hz; sens for line-level inputs 13.9 mV; 45.2 lb; 17.5" w x 6.4" h x 14.6" D $3,300

E-302 120-W/ch Integrated Amp
3-position loudness compensation and power meters. Inputs for MM phono; MC phono; tape; tape 2; phono 2; CD player; 3 line inputs. S/N 120 dB; MM phono sens 0.22 mV for 0.5 V output at 1,000 Hz; sens for line-level inputs 7.1 mV; 120 W/ch into 8 ohms; 180 W/ch into 4 ohms; 35.6 lb; 17.5" w x 5.75" h x 14.6" d $2,575

E-205 80-W/ch Integrated Amp
Parallel push-pull output stage driven by MOSFET driver stage; large power supply; direct-coupled circuitry with DC servo; high-gain equalizer; MC-input imp selector; 9 inputs; turnover selector switch; tape monitor and dubbing switches; subsonic filter; outputs for 2 pairs of speakers; speaker selection switch; mono switch. Inputs for MM phono; MC phono; tape; tape 2; CD player; tuner; 3 line-level inputs. Champagne-gold or black-anodized finish. 80 W/ch into 8 ohms, 100 W/ch into 4 ohms. 17.5" w x 5.75" h x 14.56" d; 30.8 lb $1,600

ACOUSTIC RESEARCH

AR A-06 Integrated Amplifier
Features infrared remote control of input functions and volume via cable link to AR T-04 tuner. Pre and power amps can be split. Inputs for MM phono; MC phono; tape; tape 2; AUX; CD player; tuner; video. 60 continuous average W/ch from 20-20,000 Hz with no more than 0.03% THD into 8 ohms; 90 watts into 4 ohms; 200-ms dynamic power 90 watts; dynamic headroom 2 dB; slew rate 40 V/ms; FR 13-50,000 Hz ± 3 dB; THD 0.03%; S/N 90 dB; IMD 0.03%; 40-ampere current capability. 17" w x 3.31" h x 13" d .. $440

AR A-04 Integrated Amplifier
Features infrared remote control of basic functions via cable link to AR T-04 tuner; gold-plated phono inputs. Inputs for MM phono; MC phono; tape; AUX; CD player; tuner; video. 40 continuous average W/ch from 20-20,000 Hz with no more than 0.03% THD into 8 ohms; 60 watts into 4 ohms; 200-ms dynamic power 60 watts; dynamic headroom 2 dB; slew rate 40 V/ms; FR 13-50,000 Hz ± 3 dB; THD 0.03%; S/N 90 dB; IMD 0.03%; 25-ampere current capability. 17" w x 3.31" h x 13" d $340

a/d/s/

Atelier A2 80-W/ch Amplifier
Stereo integrated amp with separate input selectors for recording and listening. Features 2 tape monitor loops; 2 seprate phono preamps, one for MM cartridges and one for MCs; preamp output and main amp input jacks; fast-response linear LED displays; clipping indicators; power output 100 W/ch into 4 ohms, 80 W/ch into 8 ohms, 70 W/ch into 2 ohms. 17.5" w x 2.8" h x 14.8" d; 20 lbs $699

AKAI

AM-A402-B 100-W/ch Integrated Amp
DC-servo circuitry for increased dynamic range; electronic circuit protection for system and speakers; 5-band EQ; processing loop; output level meter; loudness circuit. Inputs for CD player; tuner; MM phono; tape; tape 2; aux. 100 W/ch into 8 ohms; EQ center frequencies at 63, 250, 1,000, 4,000, 16,000 Hz with 10-dB maximum boost/cut. 17.3" wide x 3.9" high x 9.8" deep; 16.1 lb $300

AM-A202-B 50-W/ch Integrated Amp
DC amp construction; 5-band EQ; processing loop; loudness contour. Inputs for MM phono; tape; CD player; tuner. 50 W/ch into 8 ohms; EQ center frequencies at 63, 250, 1,00, 4,000, 16,000 Hz with max 10-dB boost/cut. 17.3" w x 3.9" h x 9.8" d; 12.8 lb $189

AUDIO DESIGN ASSOCIATES

MRA-808 Multiroom Amp. Mainframe
Contains 8 integrated amplifier modules. Each module features digitally controlled volume, bass and treble. 40 W/ch continuous from 20-20,000 Hz into 8 ohms with no more than 0.03% THD; 60 W/ch into 4 ohms; slew rate 10 v/μsec; intermodulation distortion 0.02%; 50 lb; 19" w x 12.5" h x 14.5" d $9,927

DCA-40 Digital Control Amplifier
Integrated amp with inputs for MM phono, tape, tape 2, aux, CD player, tuner. Features electronic digital volume control; separate phono preamp. 40 continuous average W/ch from 20-20,000 Hz with no more than 0.06% THD into 8 ohms; 50 W into 4 ohms; FR 20-20,000 Hz ± 3 dB; THD 0.06%. 6 lb; 19" w x 3.5" h x 12" d $950

CAMBRIDGE AUDIO

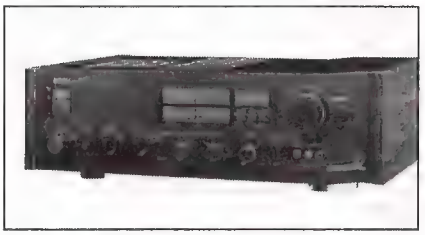
P35 Integrated Amplifier
Features passive tone controls; passive segmented phono section; MC/MM switchable inputs; large toroidal input transformer; solid-wood end panels. 60 W/ch; THD 0.05%; S/N MM 80 dB, MC 73 dB, line 80 dB. 17.5" w x 2.5" h x 11" d; 17 lb $665

CREEK AUDIO BY MUSIC HALL

4040 35-W/ch Integrated Amplifier
Inputs for MM phono, CD, tuner, tape in and out. Designed for extreme clarity and warmth. 35 W/ch into 8 ohms $350
4140. Similar to above but with 40-65 W/ch; MC switch; increased sens and gain $450

DENON

PMA-900V Integrated Amplifier
Features 120 W/ch; pure-curent power; high-speed dual non-NFB amp; A/V switching; front-



panel video input; MM/MC input; processor loop; muting switch. Side panels standard $700

PMA-700V Integrated Amplifier
Features 100 W/ch; pure-current power; high-speed dual super non-NFB amp; A/V switching; front-panel video input; MM/MC input; processor loop $530
ACA-38. Side panels for PMA-700V $30

INTEGRATED AMPLIFIERS

AVC-500II A/V Integrated Amplifier
Audio/video control center with 25-W/ch amp, surround processor, Dolby surround sound, 3 sets of audio/video inputs/outputs with full switching capability, master volume, simulated stereo, full video dubbing with enhancer circuit, auto copy, external audio source input; 5-band graphic EQ; hadphone jack $375

PMA-500V Integrated Amplifier
Features 80 W/ch; pure-current power; high-speed non-NFB amp; 7 audio, 2 video inputs; MM & MC inputs $370
ACA-36. Side panels for PMA-500V..... $30

PMA-300V Integrated Amplifier
Features 55 W/ch; 2 audio, 2 video inputs; MM & MC inputs $250

PMA-250 Integrated Amplifier
Features high-speed power transistors; simple and straight signal path; CD-direct switch; inputs for phono, CD, tuner, AUX, tape monitor; dual-concentric volume controls; headphone jack; large speaker terminals for audiophile quality connections. 25 W/ch min rms into 8 ohms from 20-20,000 Hz with no more than 0.08% THD; dynamic power 52 W/ch into 8 ohms; IMD 0.03% $200

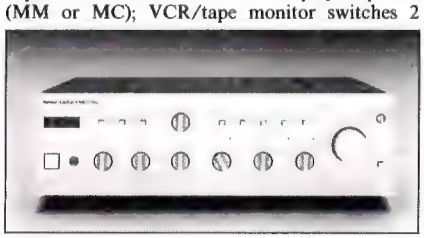
DUAL BY ORTOFON

PA5060 Integrated Amplifier
60 watt/ch integrated amplifier with high current output capability and MC phono input. Black$380

PA5030 Integrated Amplifier
30 watt/ch integrated amplifier with high current output capability and MC phono input. Black$280

HARMAN KARDON

PM665 Vxi 150-W/ch Integrated Amplifier
Inputs for A/V, aux, tuner, CD player, phono (MM or MC); VCR/tape monitor switches 2



decks and source; drives 2 pairs of speakers; selectable turnover frequencies (bass 200 or 400 Hz, treble 2,000 or 6,000); tone defeat; mono switch; capacitance trim (normal, +100, 200, 300 pF); phase-correct loudness; high and low filters; 2-way tape dubbing; lit mute button (20 dB down); preamp out and main in jacks; active/passive phono section; 2 power transformers; 8 150-W power transistors. 150 W/ch into 8 ohms; dynamic power 500 W; current capability ± 80 amps $925
PM655 Vxi. Similar to above except 90 W/ch; current capability ± 45 amps for 260 W on peaks $625
PM645 Vxi. Similar to above except 60 W/ch; current capability ± 30 amps; external processor loop instead of preamp out/main in jacks . $425
PM640 Vxi. Similar to above except 45 W/ch; current capability ± 18 amps; neg feedback 20 dB; no low or high filter $325

For explanations of abbreviations, specifications, and technical terms, consult the glossary on page 221.

PM635 30-W/ch Integrated Amplifier
Inputs for MM phono; tape; CD player; tuner. All discrete circuitry. 30 W/ch into 8 ohms; 200-ms dynamic power 75 W; slew rate 120 V/ms; instantaneous current capability ± 15 amps; negative feedback 25 dB; S/N 85 dB $215

HITACHI

HA-007SW 65-W/ch Integrated Amp
Drives 2 pairs of speakers; inputs for 2 video sources, phono, CD, tuner, videodisc player, tape; bass and treble controls; balance control; loudness control; subsonic filter; Pure Drive Circuit; MOSFET's; rosewood end caps. 65 watts per channel into impedance of 8 ohms; damping factor 60 at 1,000 Hz; 19 lb $400

JVC

AX110BK Integrated Amplifier
Integrated amp with separate CD ground and CD input with differential input for low digital noise. Features Dynamic Super-A, Gm driver; Gm selector and Gm volume control for low noise; 2-amp construction; 8 inputs for CD 1, CD 2, DAT, phono, AUX, tuner, tape 1, tape 2; high gain phono EQ for MC/MM cartridges; connections for 2 pairs of speakers. 120 contiuous average W/ch from 20-20,000 Hz with no more than 0.005% THD..... $720

AX90VBK Remote-Controlled Integrated Amp
Integrated amp with unified wireless remote control to operate amp plus selected JVC Compu-Link Components. Features dynamic Super-A power amp; Gm selector and driver; electronic 7-band S.E.A. graphic EQ with 10 preset memories; 2-way volume adjustment; 3 video inputs with sound selector and acoustic expander; high-gain phono EQ; 2-amp construction; low-imp direct-power supply; LCD serves as EQ setting indicator and real-time spectrum analyzer. Inputs for MM phono; MC phono; tape 1; tape 2; aux; CD player; tuner; video 1; video 2; VCR. 120 continuous average W/ch from 20-20,000 Hz with no more than 0.007% THD into 8 ohms; FR 5-100,000 Hz ± 3 dB; THD 0.003%; S/N 100 dB; IMD 0.007%. 17.19" w x 5" h x 15.75" d; 22 lbs $600

AX70VBK Integrated Amplifier
Integrated amp with equalized recording and dubbing from tape 1 to tape 2. Features dynamic Super-A power amp; Gm selector and driver; computer-controlled 7-band S.E.A. graphic EQ with 10 preset memories; high-gain phono EQ; 2-amp construction; low-imp direct-power supply; LCD serves as EQ setting indicator and real-time spectrum analyzer. Inputs for MM phono; MC phono; tape 1; tape 2; aux; CD player; tuner. 70 continuous average W/ch from 20-20,000 Hz with no more than 0.007% THD into 8 ohms; FR 5-100,000 Hz ± 3 dB; THD 0.002%; S/N 100 dB; IMD 0.007%. 17.19" w x 4.62" h x 13.81" d; 17.2 lbs $400

KYOCERA

A-910 150-W/ch Integrated Amplifier
Ceramic base/chassis; cutless-core power transformer; DC configuration with DC servo control; fine-ceramic linear modularized phono stages. Inputs for MM phono, MC phono, tape, tape 2, AUX, phono 2, CD player, tuner, video. FR 10-100,000 Hz ± 1.5 dB; max output 0.25 V at rated sens; S/N 96 dB; MM phono sens 2.2 mV for 0.5 V output at 1,000 Hz; sens for line-level inputs 250 mV; 150 continuous average W/ch from 20-20,000 Hz with no >0.02% THD into 8 ohms; dynamic headroom 1.2 dB; slew rate 90 V/μs; 200 W/ch into 4 ohms with 0.05% THD; damping factor 150 (1 kHz); S/N 78 dB. 17" w x 5.75" h x 16.5" d $1,500

A-710 100-W/ch Integrated Amplifier
Ceramic base/chassis; triple push-pull power stages; single-stage high-gain circuit for improved open-loop FR; MOSFET drivers. Inputs for MM phono, MC phono, tape, tape 2, AUX, phono 2, CD player, tuner, video. FR 10-100,000 Hz ± 1.5 dB at 1 W into 8 ohms; max output 0.2 V at rated sens; S/N 105 dB; MM phono sens 2.2 mV for 0.5 V output at 1,000 Hz; sens for line-level inputs 200 mV; 100 continuous average W/ch from 20-20,000 Hz with no >0.03% THD into 8 ohms; dynamic headroom 0.7 dB; slew rate 120 V/μs; 140 W/ch into 4 ohms with 0.04% THD; damping factor 100 (1 kHz); MC sens 0.12 mV at 10, 20, 100 ohms $800

KENWOOD

KA-3300D Integrated Amplifier
Basic series digital integrated amplifier with dual built-in 16-bit D/A converters. Features optical interface with DP-3300 CD player; VIG-DLD (Voltage Interface Gate with Dynamic Linear Drive) power amplifier; 4x oversampling digital filters; 7-pole Butterworth FDNR analog low-pass filters; 3 sampling frequencies (48/44.1/32 kHz); coaxial digital input; 3 tape inputs; dual rec-out selector; 2-way dubbing; digital-direct and line-straight switches; dual MM/MC phono equalizer amplifiers; Kenwood NF-CR tone controls with selectable turnover; high-rigidity chassis; audio insulator feet; Sigma Drive Type B; variable loudness; subsonic filter; mono/stereo switch; volume control with dB settings; gold-plated input jacks. 150 W/ch min rms into 8 ohms from 20-20,000 Hz with no more than 0.004% THD; S/N 110 dB (line), 87 dB (MM phono) $1,199

KA-880D Integrated Amplifier
Basic series integrated amplifier with VIG-DLD power amplifier. Features low-impedance drive capability; independent CD input; CD-direct and line-straight switches; 3 tape inputs; dual rec-out selector; 2-way dubbing with monitor switch; MM/MC cartridge selector with NFB loop equalizer amplifier; Kenwood NF-CR bass and treble controls; Sigma Drive Type B; −30 dB muting; loudness switch; subsonic filter; mono/stereo switch; 2 speaker systems operation. 100 W/ch min rms into 8 ohms from 20-20,000 Hz with no more than 0.008% THD; S/N 108 dB (line), 86 dB (MM phono) $410

KA-770D Integrated Amplifier
Basic series integrated amplifier with DLD power amplifier. Features low-impedance drive capability; independent CD input; CD-direct and line-straight switches; 3 tape inputs; dual rec-out selector; 2-way dubbing with monitor switch; MM/MC cartridge selector with NFB loop equalizer amplifier; Kenwood NF-CR bass and treble controls; −30 dB muting; loudness switch; subsonic filter; mono/stereo switch; 2 speaker systems operation. 80 W/ch min rms into 8 ohms from 20-20,000 Hz with no more than 0.008% THD; S/N 108 dB (line), 86 dB (MM phono). 17.31" w x 5.69" h x 13.5" d; 20.24 lb
..... $360

KA-76 Integrated Amplifier
Features 7-band graphic equalizer; dual-range LED power meters; CD/AUX input; 2 tape inputs with 2-way tape dubbing and monitor; equalizer recording switch; loudness switch; muting; A/B speaker selector; headphone jack. 100 W/ch min rms into 8 ohms from 20-20,000 Hz with no more than 0.05% THD; S/N 100 dB (line level). 16.56" w x 4.31" h x 10.88" d; 14.7 lb $300

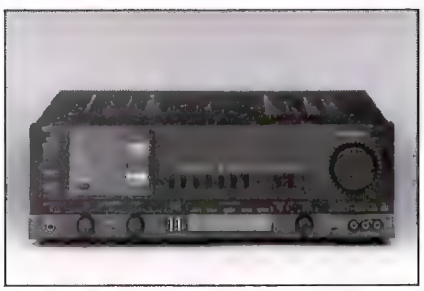
LUXMAN

LV-109 Digital-Direct Integrated Amplifier
Integrated amplifier with built-in D/A converter.

Features digital interaction with Luxman D-109 CD player; 2 digital-direct inputs; line straight switch; front panel video input jack; signal-processor switch; rec-out dubbing selectors; sampling frequency indicator; tape/video monitor selector; mono/stereo switch; −30 dB attenuator switch; bass/treble controls. 150 W/ch; THD/IMD <0.09%; FR 5-200,000 Hz −3 dB; S/N (line straight) CD/line, tape >110 dB; 17.25" w x 6.56" h x 18.13" d; 44 lb $1,500

LE-109 Phono Preamp
Designed as companion for LV-109. Features separate MC/MM inputs; variable gain and impedance switches; MC straight circuit; subsonic filter; 3 step attenuator selector. THD 0.005%; FR 20-20,000 Hz ± 3 dB; input sens/imp phono 1 (MC straight) 150 μV/100 ohms, phono 2 (MM 0 dB) 2.5 mV/47 K ohms, phono 2 (MC/22 dB) 260 μV/3,40,100 ohms, Phono 2 (MC 32 dB) 90 μV/3,40,100 ohms. 17.25" w x 2.5" h x 12.19" d; 9.9 lb $500

LV-105U Integrated Amplifier
Features BRID (hybrid) and STAR circuitry; Duo-Beta; voltage-driven amplification; tape and video dubbing; front-panel inputs (A/V 2, audio-video); rec-out selector; video amp and switching capability. Inputs for MM phono; MC phono; tape; tape 2; A/V; A/V 2; CD player; tuner. 80 continuous average W/ch from 20-20,000 Hz into 8



ohms with no more than 0.25% THD; 200-ms dynamic power 200 W at 4 ohms; FR (audio High level inputs) 3.5-300,000 Hz ± 3 dB, 20-20,000 Hz ± 0.2 dB phono, 10-6 MHz video ± 1 dB; S/N 90 dB (MM), 70 dB (MC), 96 dB (tuner, tape, CD, video audio); IMD 0.03%. 17.25" w x 5.19" h x 13.88" d; 25.3 lb $900

LV-103 Integrated Amplifier
Features BRID (hybrid) design circuitry; STAR circuitry; Duo-Beta; voltage-driven amplification; tape dubbing; front panel inputs (A/V aux); rec out selector. Inputs for MM phono; MC phono; tape; tape 2; A/V aux; CD player; tuner. 50 continuous average W/ch from 20-20,000 Hz into 8 ohms with no more than 0.3% THD; 200-ms dynamic power 160 W at 4 ohms; FR 1-150,000 Hz ± 3 dB high-level inputs, 20-20,000 Hz ± 0.3 dB phono RIAA; THD 0.3%; S/N >105 dB; IMD 0.01%. 17.25" w x 5.89" h x 13.62" d; 22.5 lb $650

LV-102 Integrated Amplifier
Features STAR circuitry; Duo-Beta; voltage-driven amplification; CD straight-sound enhancer; tape and video dubbing; independent rec out selector; dynamic sound enhancer; subsonic filter. Inputs for MM phono; MC phono; tape; tape 2; aux; CD player; tuner; video. 65 continuous average W/ch from 20-20,000 Hz into 8 ohms with no more than 0.03% THD; 200-ms dynamic power 140 W at 14 ohms; FR 1-120,000 Hz ± 3 dB high-level inputs, 20-20,000 Hz ± 0.3 dB phono RIAA, 10-6M Hz A/V/video. 17.25" w x 5.44" h x 13.88" d; 19.8 lb $550

LV-101 Integrated Amplifier
Features STAR circuitry; Duo-Beta; voltage-driven amplification; CD straight; tape dubbing; independent rec-out selector; subsonic filter. Inputs for MM phono; MC phono; tape; tape 2; aux; CD player; tuner; video. 45 continuous average W/ch from 20-20,000 Hz into 8 ohms with no more than 0.03% THD; 200-ms dynamic power 110 W at 14 ohms; FR 1-120,000 Hz ± 3 dB high-level inputs, 20-20,000 Hz ± 0.3 dB phono RIAA; THD <0.03%; S/N >105 dB; IMD 0.005%. 17.25" w x 5.44" h x 13.88" d; 18.8 lb $420

LV-100 Integrated Amplifier
Features STAR circuitry; Duo-Beta; voltage-driven amplification; CD straight; tape dubbing; subsonic filter; stereo headphone jack. Inputs for MM phono; tape; tape 2; aux; CD player; tuner. 35 continuous average W/ch from 20-20,000 Hz into 8 ohms with no more than 0.05% THD; 200-ms dynamic power 80 W at 4 ohms; FR 10-80,000 Hz ± 3 dB high-level inputs, 20-20,000 Hz phono RIAA; THD <0.05%; S/N >96 dB; IMD 0.015%. 17.25" w x 5.31" h x 10.94" d; 13.2 lb $300

MARANTZ

PM-94G Integrated Amplifier
140 W/ch integrated amp features Quarter-A design for Class-A operation at normal listening levels; AVSS (automatic voltage supply shift) for increased dynamic headroom; matched complimentary MOSFET output devices in triple push-pull circuit; CD/phono direct switch; tone defeat switch; toroidal power transformer; ceramic damped capacitors; copper-plated chassis; separate monitor/dubbing selectors for 2 tape decks plus VCR; built-in MC step-up transformer; switches for mono mode, subsonic filter, muting, speakers on/off. 140 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.01% THD. Rose-gold with rosewood side panels $3,000
PM-94BL. As above with black finish ...$2,800

PM-94G Integrated Amplifier
100 W/ch integrated amp features Quarter-A design for Class-A operation at normal listening levels; AVSS (automatic voltage supply shift) for increased dynamic headroom; matched complimentary MOSFET output devices; CD/phono direct switch; tone defeat switch; ceramic damped capacitors; copper-plated chassis; separate monitor/dubbing selectors for 2 tape decks plus VCR; built-in MC step-up transformer; switches for mono mode, subsonic filter, muting, speakers on/off. 100 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.015% THD. Black with rosewood side panels $1,360

PM-74D Integrated Amplifier
100 W/ch integrated amp features Quarter-A design for Class-A operation at normal listening levels; AVSS (automatic voltage supply shift) for increased dynamic headroom; CD/phono direct switch; tone defeat switch; ceramic damped capacitors; copper-plated chassis; separate monitor/dubbing selectors for 2 tape decks; switches for mono mode, subsonic filter, muting, speakers on/off. 100 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.03% THD. Black $880

McINTOSH

MA-6200 Integrated Amplifier
Features 100 W/ch into 4 ohms, 75 W/ch into 8 ohms. 42 lb.....$1,795

MISSION ELECTRONICS

Cyrus II 60-W/ch Integrated Amp
Integrated amp with optional external power supply to double power output. Inputs for MM phono; MC phono; tape; AUX; CD player. 60 continuous average W/ch from 20-20,000 Hz with no >0.004% THD into 8 ohms; 60 amperes peak-to-peak swings; FR 20-20,000 Hz ± 0.2 dB; THD 0.004%; S/N 83 dB; IMD 0.005%; MM phono sens 0.31 mV for 1-W output; sens for line-level inputs 50 mV for 1-W output; dynamic headroom 1.4 dB; slew rate 150 V/μsec (input filter bypassed); 11 lb; 8.5" w x 3" h x 13.5" d ... $449
Cyrus PSX. Connected to Cyrus II, power supply is dedicated to preamp alone. PSX is then power supply for amp. Output voltage −40 + 40 V DC; transformer regulation 3% at 500 VA; 8.5" w x 3" h x 13.5" d; 5 kg $399

Cyrus I 30-W/ch Integrated Amp
Inputs for MM phono; MC phono; tape; AUX; CD player. 30 continuous average W/ch from 20-20,000 Hz with no >0.004% THD into 8 ohms; 42 amperes peak-to-peak swings; S/N 83 dB; MM phono sens 0.4 mV for 1-W output; sens for line-level inputs 60 mV for 1-W output; dynamic headroom 1.4 dB; slew rate 150 V/μsec (input filter bypassed); 9 lb; 8.5" w x 3" h x 13.5" d $399

NAD

3300 Monitor Series Integrated Amp
Power-Envelope circuitry; bass EQ; Close Tracking Soft Clipping; semiparametric tone controls; inputs for MM phono, MC phono, tape, tape 2, aux, CD player, tuner, video; speaker-imp selector. 75 W/ch into 8 ohms $598
3240PE. Similar to above except 40 W/ch; dynamic headroom +6 dB $378

NEC

A-1300E Integrated Amplifier
Features unified remote control with LED readout that can operate other NEC audio and video components; Dolby and matrix surround-sound processors. Inputs for MM phono, tape, AUX, CD player, tuner, video and TV sound sources. 50 continuous average W/ch from 20-20,000 Hz into 4 ohms with no more than 0.05% THD; dynamic headroom 5 dB; FR 10-70,000 Hz ± 3 dB; S/N 75 dB. Bridgable to 130-W/ch 2-ch operation. 17" w x 4.33" h x 17" d; 30.4 lb..... $699

A-910 Integrated Amplifier
Features unified remote control that can operate other NEC audio and video components; inputs for MM/MC phono, tuner, CD player, tape deck, AUX, TV and VCR sound sources; independent record and input selectors for listening to one source while recording another; mute switch; bass and treble controls; bipolar power supply for video output to keep degradation of video signal to a minimum. 100 W/ch into 8 ohms from 20-20,00 Hz with 0.006% THD, 130 W/ch into 4 ohms; dynamic headroom 2 dB; FR 10-40,000 Hz ± 1 dB. 16.94" w x 5.12" h x 13.38" d..... 649

AV-350 Integrated Amplifier
Remote-controlled integrated amp with built-in Dolby, hall, and matrix surround-sound processors. Features 16-bit digital delay; simulated stereo from mono sources; 3 volume/balance presets; video image enhancer; separate front and rear tone controls; a master volume control; front/rear volume control; front-left, front-right, rear-left, and rear-right volume controls; 4 built-in amplifiers that can be bridged into 2. Inputs for 2 audio and 4 video sound sources. 30 W/ch x 4 ch, 60 W/ch bridged.d; 21 lb..... $579

A-610 Integrated Amplifier
Features unified remote control that can operate other NEC audio and video components; inputs for MM/MC phono, tuner, CD player, tape deck, AUX, TV and VCR sound sources; independent record and input selectors for listening to one source while recording another; mute switch; bass and treble controls. 60 W/ch into 8 ohms from

20-20,000 Hz with 0.006% THD, 80 W/ch into 4 ohms; dynamic headroom 2 dB; FR 10-40,000 Hz ± 1 dB. 16.97" w x 5.12" h x 13.38" d $469

AV-250 Integrated Amplifier
Remote-controlled integrated amp with built-in Dolby, hall, and matrix surround-sound processors. Features 4 audio/video inputs; a master volume control; front/rear volume control; front-left, front-right, rear-left, and rear-right volume controls. 30 W/ch from 20-20,00 Hz; FR 10-40,000 Hz +0, −2 dB. 16.94" w x 3.56" h x 13.62" d; 14 lb $299

NIKKO AUDIO

IA-120 Integrated Amplifier
Integrated amp with inputs for CD, tuner, phono, AUX, tape 1 & 2, video 1 & 2, signal processor, and CD direct. Each input is duplicated for an output selector. Features auto record-output routing system; 20-dB muting; stereo/mono switches; subsonic filter; loudness, bass, and treble controls; speaker selector for 2 pairs of speakers; and headphone output. Optionally rack mountable. 120 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.008% THD $490

NA-2000 Integrated Amplifier
DC integrated amp with 100 W/ch and 2-way dubbing $330

ONIX AUDIO BY MUSIC HALL

OA21 50-W/ch Integrated Amp
Inputs for MM or MC phono, tape, CD player, tuner; 300 VA toroidal input transformer; 20,000 μfarad capacitors; MM or MC board. 50 W/ch into 8 ohms; slew rate 150 V/μsec; FR 15-40,000 ± 3 dB; 15" w x 3" h x 9" d; 11 lb $675

ONKYO

A-8190 Integrated Amplifier
Features real-phase power supply; full audio and video input switching; 6 audio and 2 video inputs including MM/MC phono; direct CD input with gold-plated terminals; direct tone control with contrabass; pre-out terminals; dubbing capability; heavy-duty speaker terminals. 100 W/ch min rms into 8 ohms from 20-20,000 Hz with no more than 0.008% THD; dynamic power 303 W/ch into 2 ohms, 235 W/ch into 4 ohms; 150 W/ch into 8 ohms; 29.1 lb $500
CW-A90. Optional woodgrain side panels for A-8190..... $70

A-8170 Integrated Amplifier
Features super-servo and delta power supplies; full audio and video input switching; 6 audio and 2 video inputs including MM/MC phono; direct CD input; direct tone controls with contrabass; heavy-duty speaker terminals. 80 W/ch min rms into 8 ohms from 20-20,000 Hz with no more than 0.008% THD; dynamic power 224 W/ch into 2 ohms, 170 W/ch into 4 ohms, 115 W/ch into 8 ohms; FR 2-50,000 Hz +0, −1 dB. 17.12" w x 5.81" h x 15.31" d; 24.7 lb..... $400

A-8150 Integrated Amplifier
Features delta power supply; seven audio inputs including MM/MC phono; CD direct input; selective tone control; off, A/B, and A + B speaker selection; discrete output stage. 60 W/ch min rms into 8 ohms from 20-20,000 Hz with no more than 0.06% THD; dynamic power 135 W/ch into 2 ohms, 110 W/ch into 4 ohms, 78 W/ch into 8 ohms; 15.4 lb $260

PARASOUND

CA250 50-W/ch Integrated Amp
Electronic volume control; detented variable loudness; separate record output selector; 10-transistor discrete phono preamp; relay protection; discrete output transistor; 3-color LED power meters; 2-way tape dubbing; A/B speaker switching. Inputs for MM phono; tuner; tape; tape 2; CD player/video. 50 W/ch 8 ohms; dynamic headroom 2 dB; slew rate 55 V/μsec; MM phono sens 2 mV for 0.5 V output at 1,000 Hz; sens for line-level inputs 500 mV; 16 lb; 17.25" w x 3.5" h x 11" d..... $300

CA220 20-W/ch Integrated Amp
Discrete output transistors; detented volume and tone controls; A/B speaker switching; headphone jack. Inputs for MM phono; tuner; tape; CD player/video. 20 W/ch into 8 ohms; dynamic headroom 1 dB; MM phono sens 2 mV for 0.5 V output at 1,000 Hz; sens for line-level inputs 500 mV; slew rate 22 V/μsec; 11 lb; 17.25" w x 3.5" h x 10" d $165

PIONEER

A-88X(BK) Integrated Amplifier
Features nonswitching (Type-II) circuit; 3-transformer multi-power supply; MC phono input; line-straight selector (tone control bypass); subsonic filter; 2 tape monitors; 2-way tape dubbing; headphone output; connections for 2 pairs of speakers; black finish with rosewood-finished vinyl-covered side panels. 120 continuous average W/ch into 8 ohms from 20-20,000 Hz with no more than 0.003% THD. 5.94" h x 17.94" w x 16.8" d $770

SA-900D Integrated Amplifier
Features nonswitching (Type-II) circuit; twin-mono-amp construction; 7 separate power supplies. 120 continuous average W/ch into 8 ohms form 20-20,000 Hz with no more than 0.003% THD; dynamic power 441 W/ch at 2 ohms. 16.56" w x 6.12" h x 16.81" d..... $700

A-V1200(BK) Integrated Amplifier
Features nonswitching (Type-II) circuit; 5 audio inputs; 5 video inputs; simulated stereo; video enhancer; line-straight selector (tone control bypass); dynamic expander; RF converter terminal; audio and video tape dubbing; connections for 2 pairs of speakers. 80 continuous average W/ch into 8 ohms form 20-20,000 Hz with no more than 0.007% THD $600

A-77X(BK) Integrated Amplifier
Features nonswitching (Type-II) circuit; 3-transformer multi-power supply; MC phono input; line-straight selector (tone control bypass); subsonic filter; 2 tape monitors; 2-way tape dubbing; headphone output; connections for 2 pairs of speakers; black finish with roeswood-finished vinyl-covered side panels. 100 continuous average W/ch into 8 ohms from 20-20,000 Hz with no more than 0.003% THD. 5.94" h x 17.94" w x 16.8" d $550

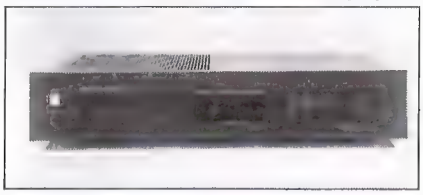
A-X909V(BK) Integrated Amplifier
Features unified audio/video remote control; 5 audio and 4 video inputs; 2-way video dubbing; simulated stereo; stereo-wide switch; built-in RF modulator; connections for 2 pairs of speakers. 3.94" h x 14.19" w x 13.06" d..... $390

VSA-30(BK) Integrated Amplifier
Features built-in switchable surround-sound processor; remote control; 2 video inouts; 1 video output; 5 audio inputs plus tape-monitor loop; simulated stereo. 30 W/ch into 8 ohms from 30-20,000 Hz with 0.4% THD (front ch), 10 W/ch into 8 ohms from 70-7,000 Hz with 3% THD (rear ch). 16.56" w x 3.88" h x 11.25" d $300

PROTON

D540 Integrated Amplifier
High-current, high-dynamic power amplifier with Dynamic Power On Demand (DPD). Features phono section with MC and MM phono selections; active volume control; anti-clipping circuit. 40 continuous W/ch from 20-20,000 Hz; FR 20-20,000 Hz ± 0.2 dB; S/N 85 dB (unweighted), 105 dB (A-wtd); dynamic headroom 6 dB; dynamic power rating: IHF 20 ms at 8 ohms is 160 W, 4 ohms 280 W, 2 ohms 380 W; 100 ms duration 8 ohms is 150 W, 4 ohms 220 W, 2 ohms 230 W; 200 ms 8 ohms is 150 W, 4 ohms 190 W, 2 ohms 200 W. 16.5" w x 3.5" h x 12.5" d; 19.14 lb $299

AM-300 Integrated Amplifier
30 W/ch integrated amp with DPD for 6 dB of headroom and a dynamic power rating at 8/4/2 ohms of 120/200/220 W. Features low imp drive capability; remote control; low-noise MC amp; selectable MC/MM input. THD 0.01%; damping factor 90 dB; line input sens 150 mV; line input imp 47K ohms/220pF; phono input sens MM/MC 2.5/0.25 mV; phono input imp MM/MC 47K ohm/100 ohm; crosstalk at 1,000 Hz is 75 dB; S/N 100 dB for tape and video $249



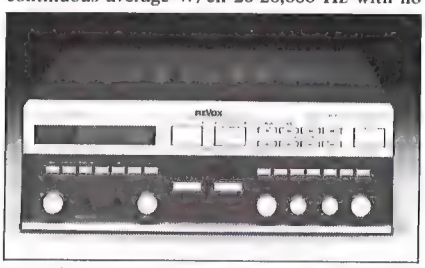
REALISTIC

SA-150 Stereo Mini Amplifier
Inputs for tuner, tape deck, turntable. Mono/stereo button; tone control; headphone jack; walnut-grain vinyl. 9" x 2.5" x 6" $60

SA-10 Stereo Micro Amplifier
Inputs for ceramic phono, tuner, tape deck. Stereo/mono button; tone control; L/R volume control. 7.9" x 3.25" x 5.5" $30

REVOX

B251 Integrated Amplifier
Microprocessor-controlled integrated amp with switched power supply; liquid cooling by heat pipe; input sensitivities programmable into non-volatile memory. Features infrared remote control; rise time of 2 μsec with 4-ohm load; cable capacitance selector (150/300/450 pF). Inputs for MM phono; MC phono; tuner; tape; tape 2; AUX; phono 2; CD player; external equalizer. 120 continuous average W/ch 20-20,000 Hz with no more than 0.01% THD into 8 ohms; FR 20-20,000 Hz +0, -0.2 dB; THD 0.01% at nominal output and at 50 mW; S/N 96 dB at nominal output, 80 dB at 50 mW; MM phono sens 1.6-23 mV for 5-mV output at 1,000 Hz; sens for line-level inputs 160 mV to 2.3 V; dynamic headroom 3 dB; slew rate 100 V/μsec. 17.75" w x 6" h x 13.1" d; 18.7 lb $1,700



ROTEL

RA870BX Integrated Amplifier
Integrated amp with 100 W/ch from 20-20,000 Hz bridgeable to 300 W. MC input; CD direct in-

put with level control; high current. 0.03% THD; 0.05% IMD $599

RA840BX2 Integrated Amplifier
50 W/ch 20-20,000 Hz; Upgraded power supply with metal bypass caps. Close tolerance selected components; high tolerance; 0.05% THD; 0.08% IMD; MM/MC phono inputs; high current .. $349
RA820BX2. Similar to RA840BX2 except no MC phono and 30 continuous W/ch from 20-20,000 Hz with no more than 0.05% THD into 8 ohms, IMD 0.08% $249

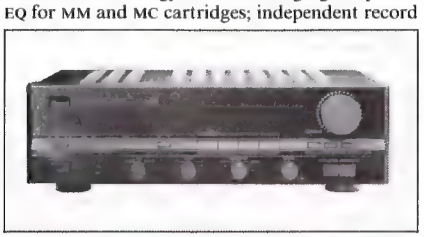
SAE

A1102 Integrated Amplifier
60 W/ch integrated amp with on board computer to eliminate dependency between front-panel control switches and audio circuits. Max THD from 20 Hz-20,000 Hz 0.025% at full rated power both ch driven. All controls are grouped together by function with alphanumeric and digital LED dis-

play for input functions, tone settings and volume level. Features 2-way tape copy; external loop; MM & MC phono inputs; 3 programmable digital tone memories; sequential audio muting (fade out/in when switching inputs); high-current power-amp stage; peak/average LED power display $499

SANSUI

AU-X901 Integrated Amplifier
Vintage series stereo integrated amp with Alpha X-balanced technology. Features direct-balanced input for Sansui CD players; independent record selector with OFF position; power amp direct connection; high-gain phono EQ for MM and MC cartridges with FET input; bass and treble controls; selectable bass turnover; gold-plated input/output terminals; A-B speaker switching; subsonic filter; loudness contour; ext processor loop. Inputs for phono; tuner; tape; tape 2; tape 3; tape/DAT; CD player; tuner. 130 continuous average W/ch from 10-20,000 Hz with no more than 0.003% THD into 8 ohms, S/N 120 dB; MM phono sens 2.5 mV/47k ohms. Slew rate ± 200V/μsec; 17.63" w x 6.31" h x 17.38" d;44.1 lb; black finish $1,000
AU-X701. Similar to AU-X901 except 100 W/ch into 8 ohms with no more than 0.003% THD$700
AU-X501. Similar to AU-X701 except 80 W/ch with no more than 0.005 THD $500
AU-X301 Integrated Amplifier
Vintage series integrated amplifier with Alpha X-balanced technology. Features high-gain phono EQ for MM and MC cartridges; independent record



selector; subsonic filter; A-B speaker switching. 65 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.05% THD $430

AU-G99X Integrated Amplifier
Stereo integrated amp with X-balanced technology. Features FL peak power level indicators with meter range switch; MC cartridge preamp; bass, treble, and midrange tone controls; tone-defeat switch; bi-directional tape dubbing with REC selector; low/high filters; muting switch; loudness switch; headphone jack; connections for 2 pairs of speakers. 160 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.003% THD; S/N 110 dB (line), 88/70 dB (MM/MC phono) $1,000

SONY

TA-F700ES Integrated Amplifier
Features nonmagnetic G-chassis construction; spontaneous twin-drive power supply; super legato linear circuitry; source direct switch to route input signal directly to volume control; passive tone-control circuitry with switch-selectable bass and treble turnover frequencies; defeatable subsonic filter; inputs for 3 tape decks with dubbing

capabilities, MM/MC phono, CD player, tuner, and AUX signal; independent record output selector for taping one signal while listening to another; A-B, A+B speaker switching. 105 continuous W/ch into 8 ohms with 0.004% THD, 140 W/ch into 4 ohms with 0.008% THD. 17" w x 6.38" h x 17.25" d; 40 lb $700

TA-F500ES Integrated Amplifier
Features nonmagnetic G-chassis construction; spontaneous twin-drive power supply; super legato linear circuitry; source direct switch to route input signal directly to volume control; passive tone-control circuitry; defeatable subsonic filter; inputs for 3 tape decks (2 video); MM/MC phono, CD player, tuner, and AUX signal; independent record output selector for taping one signal while listening to another; A-B, A+B speaker switching. 80 continuous W/ch into 8 ohms with 0.006% THD, 100 W/ch into 4 ohms with 0.01 THD. 17" w x 5.75" h x 14.75" d; 29 lb ... $500

TANDBERG

TIA 3012A Integrated Amplifier
Features high-current MOSFET output, passive calibrated tone controls utilizing metal-film resistors (1% tolerance), no electrolytic or ceramic capacitors from phono input to speaker output. Thermic servo loop to detect DC offset on the output. Minimized Miller Effect; minimal negative feedback and no current or voltage limiting on output stages. 100 W/ch rms into 8 ohms <0.02% THD. Rosewood side panels optional. May be combined with Tandberg tuner and a pair of rosewood side panels to create a receiver$1,495

TECHNICS

SU-V10X 120-W/ch Integrated Amplifier
Features separate record and input selectors and A/V terminals. Inputs for MM phono; MC phono; tuner; tape; tape 2; AUX; phono 2; CD player; DAT deck; VCR; TV; tuner. 120 W/ch into 8 ohms; 29.8 lbs; 16.94" w x 5.8" h x 15.41" D$750
SU-V7X. Similar to above except 100 W/ch into 8 ohms; 24.3 lbs $560

SU-V60 90-W/ch Integrated Amplifier
Voltage-control amp and current-drive amp for each ch. Class AA bridge connected to separate current-drive amp isolates voltage-control amp from load to reduce distortion. Current-drive amp supplies current to speakers to avoid adverse influence of speaker-imp fluctuations and phase differences caused by complex speaker imps. Inputs for MM phono; tape; tape 2; tuner; CD player; AV/aux. 90 W/ch; 16.94" w x 4.56" h x 13.36" d; 18.8 lbs $375
SU-V40. Similar to above except 50 W/ch into 8 ohms, 16.94" w x 3.91" h x 11.44" d; 13.9 lbs$280

VECTOR RESEARCH

VA-1400 100-Watt Integrated Amplifier
100-W/ch high-current integrated amp with 8 output transistors. 200 W/ch with optional VA-1450 bridging amp. Inputs for MM phono; MC phono; tape; CD; video sound source. 100 continuous average W/ch from 20-20,000 Hz with <0.08% THD into 4 ohms; dynamic headroom 2.5 dB; IHF IMD 0.08%; FR 10-40,000 Hz ± 1 dB. 17" w x 3" h x 12" d; 20 lb $350

YAMAHA

AX-900U Integrated Amplifier
Integrated amplifier with independent preamp/power amp configuration. Features absolute linear amplification; high dynamic power; low-impedance drive capability; CD direct position; continuously variable loudness control; preamp in/main amp out terminals; dual record-out selectors. 130 W/ch min rms into 8 ohms. Black; 42 lb $649

AX-700U Integrated Amplifier
Features absolute linear amplification; high dynamic power; low-impedance drive capability; CD direct position; continuously variable loudness control; record-out selector; accessory output loop; 3 tape inputs. 110 W/ch min rms into 8 ohms from 20-20,000 Hz with less than 0.005% THD. Black; 29 lb $519

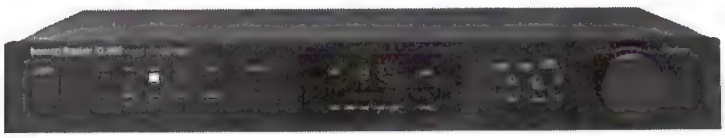
AVC-50 Audio Video Integrated Amplifier
Master A/V integrated amplifier with built-in surround sound decoder. Features 10 audio and 4 video inputs and outputs; RS integrated system remote control; built-in video enhancer with continuously variable sharpness, detail, and level control; 5 surround modes including Dolby Surround; bass extension control; continuously variable delay time control. 45 W/ch (front), 45 W/ch (rear) min rms into 8 ohms from 20,20,000 Hz with less than 0.05% THD. Black; 18 lb ... $499

AVC-30U Audio Video Integrated Amplifier
Master A/V integrated amplifier with built-in surround sound decoder. Features RS integrated system remote control; audio and video input source selection; independent record out selection of audio and video sources; pre-main coupling loop; 4-channel drive. 100 W/ch (front), 20 W/ch (rear) into 8 ohms from 20-20,000 Hz with less than 0.05% THD. Black; 26 lb $429

AX-500U Integrated Amplifier
Features absolute linear amplification; high dynamic power; low-impedance drive capability; CD direct position; continuously variable loudness control; record-out selector; accessory output loop; MM/MC phono selector; 2 tape inputs; banana-plug compatible speaker terminals. 85 W/ch min rms into 8 ohms from 20-20,000 Hz with less than 0.01% THD. Black; 18 lb ... $349

AX-500U Integrated Amplifier
Features high dynamic power; low-impedance drive capability; continuously variable loudness control; pure-current servo phono-EQ amp; MM/MC phono selector; banana-plug compatible speaker terminals. 55 W/ch min rms into 8 ohms from 20-20,000 Hz with less than 0.015% THD. Black; 16 lb $249

TUNERS



ACCUPHASE BY MADRIGAL

T-106 AM/FM Stereo Tuner
Quartz-locked synthesis; 14-station random memory; pulse tuning; double-tuned front end; FM stereo demodulator; AM synchronous detector; signal-strength meter; peak-modulation meter; MPX filter; sel switch; muting switch. FM section: 50-dB quieting sens mono 17 dBf, stereo 17 dBf; S/N 83 dB stereo, 79 dB mono (at 80 dBf A-wtd); FR 10-60,000 Hz +0, 0.5 dB; capture ratio 1.5 dB; sep 50 dB at 1,000 Hz; AM sup 80 dB at 65 dBf. AM section: sens 20 μV/m at 20 dB S/N; 17.5″ w x 5.06″ h x 14.56″ d $1,850

T-107 Synthesizer FM Tuner
Electronic tuning; 12-station random memory; auto sweep for FM reception; double-tuned front end to reject interference and IM; differential-gain linear FM detector; IF filters with flat group-delay characteristics; resonator-controlled stereo demodulator; multipath and signal-strength meter; MPX filter; muting switch; champagne-gold or anodized-black finishes. FM section: 50-dB quieting sens 17 dBf; S/N stereo 85 dB; FR 10-16,000 Hz ± 3 1 dB; capture ratio 1.5 dB; sep 50 dB at 1,000 Hz; AM sup 80 dB; adj-ch rej 30 dB. 17.5″ w x 4.36″ h x 13″ d; 12.8 lb $1,200

ACOUSTIC RESEARCH

AR T-04 AM/FM Tuner
Features infrared remote control of tuning functions; system remote operation; 8 AM/8 FM station presets; frequency-syntesized tuning; digital frequency display; smooth flywheel-assisted tuning; manual or auto station search. FM section: FM usable sens (mono) 11.2 dBf (2.0 μV); FM 50-dB quieting sens 37.2 dBf (40 μV) stereo, 14.6 dBf (3.0 mV) mono; S/N 75 dB stereo; FR 30-15,000 Hz ± 0.5 dB; capture ratio 1.0 dB; sep 48 dB at 1,000 Hz; AM suppression 58 dB; alt-ch sel 60 dB. AM section: FR 60-3,000 Hz ±3 dB. 17″ w x 3.31″ h x 13″ d $380

ADCOM

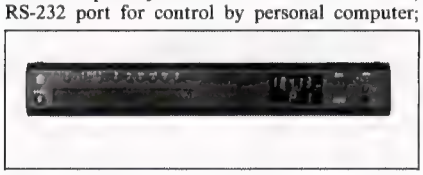
GTP-500 Tuner/Preamplifier
Preamplifier with built-in tuner can be used with Adcom or other power amps. Wireless remote control included. Remote sensors available for remote control from different rooms. Tuner section features quartz-referenced digitally synthesized tuning; auto up and down scan; 8 AM/FM presets; 5-LED signal-strength display; high-blend circuit; 2 sets of outputs (AC coupled, DC coupled). Preamp section features inputs for MM phono; tape; tape 2; CD player; tuner. S/N phono A-wtd 85 dB; IMD preamp 0.0015%; sens tuner 36.5 dBf stereo; THD tuner 0.09% stereo at 1,000 Hz; S/N tuner 75 dB stereo; sep tuner 52 dB at 1,000 Hz. 17″ w x 3.25″ h x 12.75″ d $550
GTP-500W. As above with white front panel $625
GTP-500S. With silver front panel $625

GFT-555 AM/FM-Stereo Tuner
Features quartz-referenced digitally synthesized tuning; auto up/down scan; instant-recall preset tuning; fluorescent digital-frequency display; 8-AM/FM presets; 5-LED signal-strength display; switchable high-blend circuit; mono/mute switch; tuning accuracy of 0.00025%. THD stereo 0.07% at 1,000 Hz; 50-dB quieting sens stereo 35.5 dBf; S/N 78 dB stereo; FR 30-15,000 Hz ± 3 dB; capture ratio 1.5 dB; sep 53 dB at 1,000 Hz; AM supression 70 dB. 17″ x 3.25″ x 12.5″ $300
GFT-555W. As above with white front panel $375
GFT-555.S. With silver front panel $375

Accessories
RM-3. Optional rack-mount adaptors for GTP-500 and GFT-555 ..... $20/pr
RM-3W. RM-3 in white $25/pr
RM-3S. RM-3 in silver $25/pr
XR-500. Remote sensor for GTP-500 ..... $90

a/d/s/

CC4 Digital Tuner/Preamp
With microprocessor operating system for remote-control operation, digital volume and tone controls, and alphanumeric display. Remote IR receiver capability for multi-room remote control; RS-232 port for control by personal computer;



digital-synthesized tuning with 30 AM or FM stations; optional remote control. Preamp section: max output >7 V rms into 10,000 ohms/1,000 pF; volume and balance control range 80 dB in 1-dB steps; bass and treble control range ± 10 dB in 2-dB steps; low bass 0 to +6 dB in 1-dB steps. FM section; sens <13 dBf mono; 50-dB quieting sens <40 dBf stereo; capture ratio <1.5 dB; sel >65 dB; spurious rejection >100 dB; stereo S/N >70 dB; sep at 1,000 Hz >47 dB. AM section; sens for 6-dB S/N <10 μV; IF rejection >50 dB; S/N 44 dB. 17.5″ w x 2.8″ h x 14.8″ d; 18 lb $999

RC1 Unified Remote Control
Infrared wireless remote controls CC4, R4 receiver, CD3 CD player, and other a/d/s/ components $100

Atelier T2 Digital Tuner
AM/FM synthesized tuner with 16 station presets and auto FM search tuning. Features flywheel manual tuning; fine-tuning control; switchable muting; high-blend control; LED frequency display; center tuning plus signal-strength displays; AC outlets. FM usable sens mono 1.0 μV (11.0 dBf) stereo 5.5 μV (26.1 dBf); stereo 50-dB quieting sens 15 μV (34.8 dBf); S/N mono >70 dB, stereo >65 dB; FR 10-14,500 Hz, +0, −1 dB; ch sep >38 dB at 10,000 Hz; capture ratio <1.8 dB; AM quieting sens <5 μV for 6 dB S/N; image rejection >55 dB; S/N (with 1,000-Hz 5-mV signal) >44 dB; 17.5″ x 2.8″ x 14.8″ $539

AKAI

AT-A102-B AM/FM-Stereo Tuner
Quartz-synthesized tuner with random presets for 16 stations $149

AUDIO DESIGN ASSOCIATES

FM-600 Tuner
Analog FM tuner with 6 presets and digital frequency readout. Features AFC tuning; muting; stereo blend noise filter; stereo/mono mode all front panel switchable; signal strength/multipath LED meter; 15-pole IF filter; rear panel left and right output level controls; standard EIA rack-mountable. FM section: FM usable sens stereo 1.9 mV; 50-dB quieting sens stereo 2.7 mV; THD 0.15% at 1,000 Hz; S/N 65 dB; FR 15-15,000 Hz ± 3 dB; capture ratio 1.9 dB; sep 47 dB at 1,000 Hz; adjacent-ch rejection 90 dB 12 lb; 19″ w x 5.25″ h x 13″ d $2,395

AUDIO DYNAMICS

T200 AM/FM Tuner
Digital-synthesis tuner with Schotz noise reduction. Features 8 AM/ 8 FM station presets; auto wide-/narrow-bandwidth switching; extended AM response; auto station scanning. FM FR 15-15,000 Hz ± 0.375 dB; FM S/N 77 dB stereo; FM sens 44 dBf (43 μV) stereo 60-dB S/N; capture ratio 1.75 dB $399

CARVER

TX-11a FM/AM Stereo Tuner
Digital quartz-synthesized tuner with Asymmetrical Charge Coupled FM Detector circuit to reduce multipath distortion while retaining full separation. 13 presets; auto/manual scan; wide/narrow bandwidth selector; antenna. FM section: FM usable sens 1 μV mono; 50-dB quieting sens 3.1 μV; alt-ch sel 110 dB; adj-ch rej 110 dB; capture ratio 1.0 dB; AM sup 65 dB; image, i-f, spurious-response ratio 110 dB. AM section: sep 35 dB; S/N 77 dB $699

TX-2 AM/FM Stereo Tuner
AM/FM tuner with Asymmetrical Charge Coupled FM Detector. FM section: FM usable sens mono 1.8 μV, stereo 4.5 μV; 50-dB quieting sens stereo 5 μV; capture ratio 1.5; sep 43 dB at 1,000 Hz; AM sup 60 dB; alt-ch rej 58 dB; adj-ch rej 28 dB. AM section: sens 250 μV with built-in antenna, 20 μV with external antenna $399

CREEK AUDIO BY MUSIC HALL

3140 FM Tuner
Auto mute; AFC $350

dbx

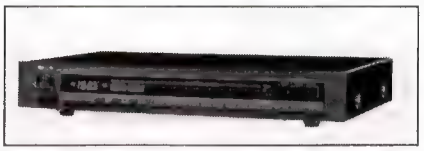
TX1 AM/FM Tuner
Features Schotz dynamic noise reduction; auto IF-bandwidth switching; extended NRSC AM response; 6 AM/6 FM station presets; mono and high-blend switches. FM FR 15-15,000 Hz ± 0.25 dB; FM S/N 79 dB stereo; capture ratio 1.5 dB; FM sens 43.7 dBf with 60-dB S/N $600

DENON

TU-800 AM/FM Tuner
Features Dynamic-Twin-Drive PLL circuits; 3-step IF bandwidth selection; 30-station random

preset memory; MPX-NR switch; high-sensitivity digital synthesis tuning; low-impedance output; auto-scan tuning; quick manual tuning; step manual tuning; last-channel-tuned memory; large FL display. FM 50 dB quieting sens 20 μV (37.2 dBf) stereo, 1.6 μV (15.3 dBf) mono; S/N 96 dB mono, 86 dB stereo; capture ratio 1.2 dB; AM sup 70 dB. 17.09" w x 3.5" h x 12.4" d $475

TU-600 AM/FM Tuner
Features dynamic PLL detection with auto bandwidth selection; 20 AM/FM presets with stored



bandwidth instruction from each station; low-imp outputs; auto or manual scan. Side panels standard $350

TU-450 AM/FM Tuner
Quartz-locked digital tuner features 16-station presets; digital synthesis tuning; MPX-NR switch; auto-scan tuning; quick manual tuning; manual step tuning; last-channel memory. FM 50 dB quieting sens 23.1 μV (38.5 dBf) stereo, 3.1 μV (21.2 dBf) mono; S/N 80 dB mono, 76 dB stereo; capture ratio 1.5 dB; AM sup 50 dB. 17.09" w x 2.75" h x 9.37" d $200

DUAL BY ORTOFON

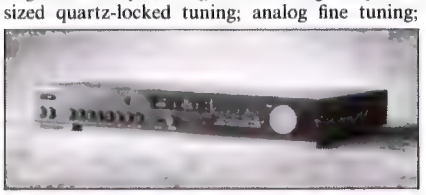
CT5040 AM/FM Tuner
High-performance AM/FM tuner features digital synthesis tuning and 40 AM/FM station presets. Black $250

HAFLER

DH-330 Tuner
Quartz-controlled tuner provides exact station selection with a digitally synthesized tuning system. Features multipath distortion and noise-sensing circuit; 5-station memory; autosearch; digital read out; nonvolatile memory; 3 dual-gate MOSFET's; 5 tuned front end circuits; triple-tuned RF stage volume control and separate output on front panel for taping or headphones; kit is comprised of 4 fully assembled, tested, and aligned circuit boards which plug together. Usable sens 11.3 dBf; 50-dB quieting sens mono 15.3 dBf, stereo 36.5 dBf; dist. at 1,000 Hz, 100% modulation mono 0.1%, stereo 0.18%; capture ratio 1.5 dB; alternate ch sel 60 dB; sep 45 db at 1,000 Hz; 35 dB at 10,000 Hz; S/N, mono, 72 dB, stereo, 68 dB. Kit $385
Assembled $460

HARMAN KARDON

Citation Twenty-Three AM/FM Tuner
16 presets; infrared remote control; mono and mute buttons; LCD readout; Active-Tracking High-Selectivity (Hi Q) Circuit; digital-synthesized quartz-locked tuning; analog fine tuning;



flywheel-stabilized tuning knob; seek and manual tuning; anodized brushed aluminum blue/black finish with molded rubber trim; heavy-gauge metal chassis. FM specs: 50-dB quieting sens stereo 15.2 dBf (normal), 19.1 (Hi Q); S/N stereo 75 dB (normal and Hi Q); capture ratio 0.75 dB (normal), 1.75 (Hi Q); alt-ch sel 75 dB $595

TU920 Active-Tracking AM/FM Tuner
Active-Tracking High-Selectivity (Hi Q) Circuit; digital-synthesized quartz-locked tuning; all-metal chassis; 16 presets; muting; 2-way seek; manual up/down tuning; 5-LED signal-strength meter; tuned indicator. FM specs: S/N stereo 74 dB (normal and Hi Q); capture ratio 1.3 dB (normal), 2.0 (Hi Q); alt-ch sel 65 dB (normal), 75 (Hi Q) $365
TU911. Similar to above except lacks Active Tracking; 3-LED signal-strength meter. FM alt-ch sel 50 dB $235

HITACHI

HPT120AVSW AM/FM Tuner/Preamp
Quartz digital-synthesized tuner section; 20 AM/FM presets; unified infrared remote control with LCD display; audio inputs for phono, CD, tape; video inputs for TV, VCR, videodisc player; electronic volume and balance controls; 5-band graphic equalizer; video signal enhancer; rosewood end caps $450

FT-007SW Quartz Digital AM/FM Tuner
16 AM or FM presets; FCCS designed to eliminate intermodulation and interference; auto quieting control function; signal-locked indicator for FM; 2-pole birdy filters; AM loop antenna; digital display to help position FM antenna; rosewood end caps $350

JVC

FX1100BK AM/FM Tuner
Computer-controlled quartz-PLL digital-synsthesis tuner with Optilink system for reduced digital noise. Features 40 AM/40 FM station presets; auto memory; preset scan; variable stop level; dB signal-strength indicator; auto QSC; 6-column alphanumeric display; 2 antenna inputs; program memory and monitor for recording off the air unattended $470

FX50BK AM/FM Tuner
Computer-controlled digital-synthesis tuner with remote control capability when used with JVC Compu-Link components. Features 16 AM/16 FM presets; auto memory; dB signal-strength indicator; preset scan; variable stop level; built-in CATV module for music source from CATV $270

FX33BK AM/FM Tuner
Computer-controlled digital synthesis tuner with remote control capablity when used with JVC Compu-Link components. Features 16 AM/16 FM presets; auto memory; preset scan; digital readout on LCD panel; optional CATV control unit . $125

KENWOOD

KT-3300D FM Tuner
Basic series FM tuner with Pentacle Power Supply design. Features Direct Linear Reception Circuit (DLRC); Direct Linear Loop FM Detector; IF distortion correcting circuit; direct pure MPX decoder; direct/distance RF selector; wide/narrow IF band selector; rec calibration with modulation meter; auto/manual quieting control; 16-station preset memory with display; digital-rotary tuning system; dynamic tuning process display; auto/manual tuning; 3-station preprogramming with tuning lock; output level control; A/B antenna selector; copper transformer shield and heat sink. FM 50 dB quieting sens 38.8 dBf (24 μV) stereo; S/N 76 dB at 65 dBf, 86 dB at 85 dBf (stereo); capture ratio 1.0 dB (wide), 2.5 dB (narrow); FR 20-15,000 Hz ±0.5 dB. 17.31" w x 3.5" h x 12.88" d; 11.9 lb $525

Basic KT-880D Tuner
Basic series FM tuner with Pentacle Power Supply design. Features Direct Linear Reception Circuit; computer-controlled tuning system; 10-key direct-access tuning; auto/manual digital tuning; wide/narrow FM IF band selector; rec calibration switch; 20-station presets; FL display. FM 50 dB quieting sens 38.8 dBf (24 μV) stereo; S/N 76 dB at 65 dBf, 83 dB at 85 dBf (stereo); capture ratio 1.0 dB (wide), 2.5 dB (narrow); FR 20-15,000 Hz ±0.5 dB. 17.31" w x 3.06" h x 12.25" d; 7.7 lb $260

KT-76 AM/FM Tuner Timer
Quartz-synthesis digital tuner with built-in 2-program audio-system timer. Features Station Name Preset System (SNPS) for 12 stations; 20-station

random preset memory with SNPS off; auto tuning; preset scan; 60-minute sleep timer; remote-controlled through KC-206 preamp. FM 50 dB quieting sens 39 dBf (49 μV) stereo; S/N 73 dB at 65 dBf (stereo); capture ratio 1.2 dB; alt ch sel 50 dB; FR 30-15,000 Hz +0.5, −2.0 dB. 16.56" w x 2.94" h x 10.5" d; 6.2 lb $200

KT-56 AM/FM Tuner
Quartz-synthesis digital tuner features 16-station random preset memory; preset scan; auto/manual tuning; FL frequency and status display; power stand-by for timer; remote-controlled through KC-206. FM 50 dB quieting sens 39 dBf (49 μV) stereo; S/N 73 dB at 65 dBf (stereo); capture ratio 1.2 dB; alt ch sel 50 dB; FR 30-15,000 Hz +0.5, −2.0 dB. 16.56" x 2.94" x 10.5"; 6.2 lb ... $140

KINERGETICS

KBT-1 AM/FM-Stereo Tuner
Designed to correct for hysteresis errors in electronics of broadcast station (adjustable correction); circuit designed to compensate for components used in broadcast station's electronics; remote power supply; digital-synthesis tuning; 5 AM, 5 FM presets; scan tuning; selectable IF bandwidth; inputs for 300- and 75-ohm antennas; finished in black or silver anodized brushed aluminum. FM specs: 50-dB quieting sens 36.0 dBf stereo; THD stereo 0.05% (wide), 0.10% (narrow) at 1,000 Hz, 100% modulation, signal level 65 dBf; S/N mono 75 dB, stereo 70 dB; sep 40 dB (wide), 45 dB (narrow); capture ratio 1.5 dB; alt ch sel 70 dB (narrow), 50 dB (wide); image rej 75 dB; pilot and subcarrier rej 60 dB. AM specs: sens to 6 dB S/N 6.3 μV; image rej 50 dB; IF rej 50 dB; FR 4,000 −6 dB $695

KYOCERA

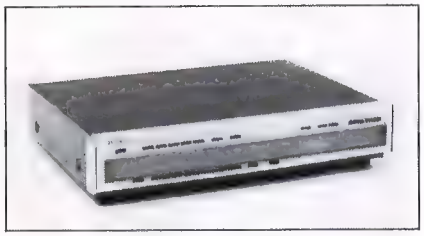
T-910 Digital AM/FM Tuner
Digital PLL quartz-synthesized stereo tuner. Features Dynamic Noise Reduction; 16 station presets; nonferrous ceramic base/chassis; 2 FM antennas; computer-programmed narrow/wideband IF selection. FM section: FM usable sens 1.7 μV (9.8 dBf); 50-dB quieting sens mono 3.0 μV (14.8 dBf); THD 0.07%, mono 0.06% (at 1,000 Hz);

The listings are based on data provided by the manufacturers. For more product information, contact an authorized dealer or the manufacturer directly. Manufacturers' addresses and phone numbers are listed in the directory beginning on page 226.

S/N stereo 81 dB, mono 84 dB; capture ratio 1.0 dB; sep 58 dB at 1,000 Hz; AM sup 55 dB; alt-ch rej 85 dB narrow, 40 dB normal. AM section: sens 280 μV with built-in antenna, 10 μV with external antenna; 26.5 lb $590

LUXMAN

T-02 Digital Synthesized Tuner
PLL frequency-synthesized AM/FM stereo tuner. FM section: usable sens stereo 1.8 μV (10.3 dBf);



THD stereo 0.06%, mono 0.05%; S/N 81 77 dB stereo, 81 dB mono; FR 20-15,000 Hz b0.5 dB; sep 55 dB; 17.81" x 3.44" x 13.56"; 10.6 lb ... $500

T-102 AM/FM-Stereo Tuner
AM/FM tuner with digital-synthesized tuning and pulse-count detector. Features compu-store; 5-station programmable timer; 20 station presets; memory scan/auto seek; muting-level control; IF narrow switch. FM section: usable sens stereo 0.9 μV (10.3 dBf); 50-dB quieting sens stereo 27 μV (39.9 dBf); THD stereo 0.06% at 1,000 Hz; S/N stereo 75 dB at 65 dBf; FR 25-15,000 Hz ± 0.5 dB; capture ratio 1 dB; sep 50 dB at 1,000 Hz; AM suppression 70 dB; adjacent-ch rejection 20 dB narrow; alt-ch rejection 80 dB narrow. AM section: FR 120-2,200 Hz ± 3 dB. 5.5 lb; 17.25" w x 2.25" h x 8.62" d $330

T-100 AM/FM-Stereo Tuner
AM/FM tuner with digital-synthesized tuning and system remote-control capability. Features 16 station random presets; auto seek; cable ready. FM section: usable sens stereo 0.95 μV (10.8 dBf); 50-dB quieting sens stereo 34.5 μV (42 dBf); THD stereo 0.15% at 1,000 Hz; S/N stereo 70 dB at 65 dBf; FR 20-15,000 Hz ± 0.5 dB; capture ratio 1.5 dB; sep 50 dB at 1,000 Hz; AM suppression 60 dB; ch rejection 65 dB. AM section: FR 120-2,200 Hz ± 3 dB. 5 lb; 17.25" x 2.25" x 8.62" $250

MARANTZ

ST 54 AM/FM-Stereo Tuner
Quartz-locked digital frequency synthesis tuner. Features 24-station preset memory (16 FM/8 AM plus bandwidth setting for each preset); retains memory for 2 weeks without AC or battery; switchable wide/narrow bandwidth $780

McINTOSH

MR-7082 AM/FM Tuner
AM/FM tuner with Signal Locked Loop tuning system. Features electronic memory for 7 FM and 7 AM stations; digital frequency readout; DMOS-FET RF amplifier; double-balanced mixer; PLL MPX decoder; audio output suppression circuits for 19 kHz and 38 kHz carrier; LED tuning meter; electronically regulated power supply; internal audio processor; memory search; wide-band AM; remote control interface. FM section: sensitivity mono 13 dBf (1.3 V) for 30 dB of quieting; signal strength for 50 dB of quieting, 18/36 dBf mono/stereo; capture ratio 1.5 dB; IM 0.08% from 20-15,000 Hz with 100% modulation or less; alt channel selectivity 55 dB; separation 50 dB at 1 kHz; AM suppression 60 dB; image rejection 90 dB. AM section: sensitivity 35 V; S/N 55 dB IHF, 65 dB at 100% modulation; THD 0.2% at 30% modulation; selectivity 40 dB IHF; IF response 90 dB. Power requirement 120 V 50/60 Hz 10 watts. 16" W x 5.44" H x 13" D $1,499
MR-510. Compact digital FM tuner $1,699

MERIDIAN BY MADRIGAL

204 FM Stereo Tuner-Timer
Instant access to 18 preset stations; scan tuning; manual tuning in 50-kHz steps; displays frequency, preset number, signal strength, or time; battery backup; timer controls 200 system. 50-dB quieting sens 23 μv stereo; sel 56 dB; capture ratio 1.5 dB; AM sup >55 dB $900
209. Remote master control works with 204 and other Meridian 200-series components; selects FM stations; controls 8 inputs, volume, and mute; needs 9-V battery $125

MISSION ELECTRONICS

Cyrus Digital AM/FM Tuner
Quartz-locked synthesized tuner matches Cyrus amp; 19 FM, 9 AM presets; auto scan with auto FM mute. FM section: FM usable sens mono 0.85 μV (26 dBf), stereo 19 μV (46 dBf); THD stereo 0.42%, mono 0.17% at 1,000 Hz; S/N 73 dB stereo, 76 dB mono; FR 20-15,000 Hz ± 1 dB; capture ratio 73 dB; sep 45 dB at 1,000 Hz; AM sup 47 dB; pilot-tone rej 42 dB; image frequency rej 57 dB; cross modulation sup 36 dB; output 1 V. AM section: FR 20-15,000 Hz ± 1 dB; sens 140 μV with built-in antenna; 8.5" w x 3" h x 13.5" d; 4.18 lb $449

NAD

4300 FMX Tuner
With circuitry to decode FMX broadcasts for improved reception in stereo of weak stations. FM section: switchable i-f bandwidth (wide/narrow); FM usable sens stereo 9 dBf; 50-dB quieting sens stereo 22 dBf; THD stereo 0.07% at 1,000 Hz; S/N stereo 80 dB; FR 30-15,000 Hz ± 0.5 dB; sep 50 dB at 1,000 Hz; capture ratio <1.5 dB; adjacent-ch rejection 80 dB $548

4130 AM/FM-Stereo Tuner
Digitally synthesized AM/FM-stereo tuner with dynamic-blend circuit. Features FM usable sens 1.8 μV mono; 50-dB quieting sens mono 14.2 dBf, stereo 34.2 dBf; S/N mono/stereo 82/75 dB; FR 30-15,000 Hz ± 0.5 dB; THD mono/stereo 0.9%/0.9% at 1,000 Hz; capture ratio <1.5 dB; alt-ch rejection 70 dB; sep 50 dB $228

NAKAMICHI

ST-7 AM/FM Stereo Tuner
Tuner with Schotz noise reduction. Features signal/multipath meter; 16 station presets; output level controls (R + L independent). FM IHF sens mono 1.7 μV (10 dBf), stereo 3.9 μV (17 dBf); FM usable sens mono 1.7 μV (10 dBf), stereo 3.9 μV (17 dBf); 50-dB quieting sens mono 2.7 μV (14 dBf), stereo 14 μV (28 dBf); THD stereo 0.08%, mono 0.06% at 1,000 Hz; S/N 76 dB stereo, 80 dB mono; FR 20-15,000 Hz ± 1 dB; capture ratio 1.9 dB; sep 55 dB at 1,000 Hz; AM suppression better than 60 dB; alt-ch rejection >60 dB. 17.12" w x 2.5" h x 11.37" d; 10 lb, 6 oz $725

NEC

T-710 Digital AM/FM Tuner
Computer-controlled quartz-PLL digital-synthesis tuner with 16 AM/FM station presets. Features auto scan; preset scan; selectable (wide, narrow) IF bandwidth; FL frequency readout; low-noise dual-gate MOSFET front end; multiplex stereo decoder with a pilot canceller and active filter; static-resistant low-imp AM loop antenna; ladder IF filter. Remote controllable when used with NED unified-remote integrated amplifiers. FM usable sens 10.8 dBf (1.9 μV). 16.94" w x 3.16" h x 10.84" d $299

T-601E Digital AM/FM Tuner
Digital quartz-PLL tuner with 16 AM/FM station presets. Features auto seek; IC-PLL multiplex FM decoder; LED signal-strength meter. Fully remote controllable when used with NEC's A-1300E integrated amp. FM usable sens 13.2 dBf (2.5 μV); alt-ch sel 60 dB. 16.9" x 2.4" x 10.5" $199

NIKKO AUDIO

Gamma 80 AM/FM Tuner
Features 20 random station presets; auto and manual seek; memory scan; muting control with variable high blend. FM S/N 86 dB; sens 43.2 dBf. 19" rack mount $470
T-120. Same as above but not rack mountable $440

Gamma 60 AM/FM Tuner
Features 10 AM/10 FM station presets; variable high blend; auto and manual seek; memory scan; muting control. 19" rack mount $360

Gamma 30 AM/FM Tuner
Quartz frequency-synthesis tuner with variable muting; high blend; auto scan; manual search; 7 AM/7 FM station presets. 19" rack mount . $340

NT-950 AM/FM Tuner
Digital quartz-synthesis tuner with 10 AM/10 FM station presets; preset scanning; IF band (wide/narrow) switching $260

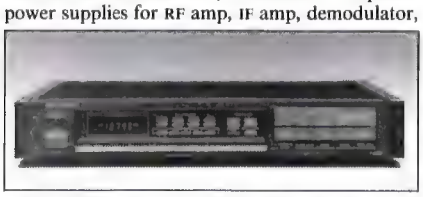
ONIX AUDIO BY MUSIC HALL

BWO1 FM Tuner
Designed for high sens, excellent capture ratio and AM sup $775

ONKYO

T-9090 MKII FM Tuner
Remote-controlled ultra-high-sensitivity FM tuner with computer-controlled APR to automatically or manually adjust for stereo/mono, local/DX, high-blend, wide/narrow/super-narrow bandwidth, and A/B antenna switching. Features multi-function digital display; digital readout of signal strenght in dBf; 20 station presets; preset scan; auto memorization; timer programming; motorized output level control. Cable ready $700

T-4087 AM/FM Tuner
Tuner with automatic precision reception system to control 4 modes (stereo-muting on/mono-muting off, auto high-blend on/off, local/DX, and IF bandwidth wide/narrow). Features 4 separate power supplies for RF amp, IF amp, demodulator,



and multi-plex decoder; 20 AM/FM station presets; battery-free memory backup; MOSFET RF amp front end; PLL demodulator. Black finish only. Wood side panels included. FM usable sens 17.2 dBf (2 μV) stereo; 50-dB quieting sens 36 dBf (17 μV) stereo; S/N 77 dB stereo; FR 30-15,000 Hz ± 1 dB; capture ratio 1 dB. 18.25" w x 3" h x 14.62" d; 12 lb $400

T-4150 AM/FM Tuner
Computer-controlled quartz-synthesized AM/FM tuner with 3-mode APR, 20 station presets, high-blend override, and multi-PLL. FM usable sens

17.2 dBf (2 μV) stereo; 50-dB quieting sens 36.1 dBf (35 μV) stereo; capture ratio 1.3 dB (wide); FM FR 30-15,000 Hz +0.5, −1 dB. 17.2″ w x 2.75″ h x 14.5″ d; 8.2 lb $280

T-4130 AM/FM Tuner
Digital quartz-synthesized AM/FM tuner with 16 station presets. Features digital frequency display; battery-free memory backup; stereo/mono swtich; mute on/off; memory and signal-strength indicator. FM usable sens 17.2 dBf (2 μV) stereo; 50-dB quieting sens 36.1 dBf (35 μV) stereo; capture ratio 1.5 dB (wide); FM FR 30-15,000 Hz ± 1.5 dB. 17.2″ wide x 2.81″ high x 10.56″ deep; 6 lb $180

PARASOUND

ST220 AM/FM Tuner
Quartz-synthesis with PLL tuning; 6 AM, 6 FM presets; auto or manual tuning; 4-LED signal-strength indicator. FM section: IHF sens mono 10.8 dBf; 50-dB quieting sens mono 16.1 dBf, stereo 37.7 dBf; S/N 76 dB stereo, 82 dB mono; capture ratio 1.4 dB; sep 48 dB at 1,000 Hz; AM sup 65 dB; alt-ch rej 66 dB; adj-ch rejection 8 dB. AM section: sens 175 μV with built-in antenna. 17.25″ w x 2.75″ h x 11″ d; 10 lb $265

PERREAUX

TU3 PLL FM Tuner
5-section tuned-Varicap RF section; microprocessor-controlled digital tuning; linear phase filters in IF stage; switchable de-emphasis. S/N stereo 68

dBA (at 65 dBf), usable sens stereo 35.8 dBf (17 μV); THD stereo 0.14%; FR 15-30,000 Hz ± 0.5 dB; capture ratio 1.5 dB; de-emphasis 25 μs, 50 μs, 75 μs (switchable). 19″ w x 1.75″ h x 13.5″ d; 13.5 lb $795

TU1 PLL FM Tuner
MOSFET front end with 4 Varicap tuned sections; 6 station preset memory; stereo/mono switch; last station recall; switchable de-emphasis. S/N 68 dBf; uasble sens 12.8 dBf; THD stereo 0.14%; FR 30-15,000 Hz ± 0.5 dB; capture ratio 1.5 dB. 17″ w x 2.25″ h x 13.5″ d; 12 lb $650

PIONEER

F-99X(BK) Digital AM/FM Tuner
Digtal Direct Decoder (DDD) AM/FM tuner with quartz-PLL synthesis tuning. Features 16 random presets; station search; LED signal strength meter; AM-stereo adaptor jack; black finish with rosewood-finished vinyl-covered side panels. 2.38″ h x 17.94″ w x 12.25″ d $375

TX-V1160(BK) Digital AM/FM/TV Tuner
Quartz-PLL digital synthesis AM/FM/TV tuner with built-in MTS decoder. Features 24 AM/FM station presets; 12 TV presets; LED tuning indicator; RF input/output; video output; black finish. 2.31″ h x 16.56″ w x 12.5″ d $330
CU-760(BK). Optional remote control for use with TX-V1160 tuner $50

F-77(BK) Digital AM/FM Tuner
Digital Direct Decoder (DDD) AM/FM tuner with quartz-PLL synthesis tuning. Features 16 random presets; LED tuning indicator; auto station search; AM-stereo adaptor jack; black finish. 2.38″ h x 16.56″ w x 12.5″ d $270

F-X707(BK) AM/FM Tuner
Quartz-PLL synthesis tuner with 12 station presets and auto station search. 2.19″ h x 14.19″ w x 13.06″ d $170

TX-V70 AM/FM Tuner
Quartz-PLL synthesis tuner with 16 station presets with auto station search and memory scan $165

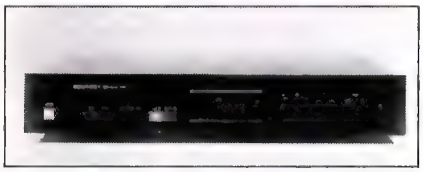
PROTON

440 Digital Tuner
Schotz AM/FM tuner with Schotz Noise Reduction. Features digital station readout; 12 station presets; memory backup holds station settings for 2 weeks when unplugged; adjustable rear panel output level. FM section: FM usable sens mono 1.8 μV (10.3 dBf); 50-dB quieting sens mono (15.3 dBf), stereo (33.2 dBf); THD stereo 0.2%, mono 0.05% at 1,000 Hz; S/N 70 dB stereo, 75 dB

Chances are you never thought a turntable like this was possible
Audiophiles have long recognized that the best sounding turntables are belt driven, suspended sub-chassis designs.
However these have usually been simple manual designs without the features most users desire.
With the CS5000, the Black Forest craftsmen from Dual have bridged the gap between performance and convenience.
Designed and built entirely in W. Germany, the CS5000 combines a four-point floating chassis with a micro-processor belt drive system, resulting in a turntable that is simple to set up and operate yet able to produce superb sound quality.
The CS5000 also features an entirely new tonearm design called OPS (Optimum Pivot System). A refinement of the legendary Dual Ultra Low Mass Design, it eliminates distortion produced by warped or eccentric records. And a unique VTA headshell is standard, for adjusting the Vertical Tracking Angle for any pick-up cartridge.
This German crafted high technology and performance, with elegant wood base in walnut or satin black finish, is surprisingly affordable. To find out more about the turntable no one thought possible visit your authorized Dual dealer or write:
Dual
NEW TECH
ortofon
DUAL/ORTOFON 122 Dupont St. Plainview, N.Y. 11803
CIRCLE NO. 90 ON READER SERVICE CARD

mono; FR 20-20,000 Hz ± 0.2 dB; capture ratio 1.5 dB; sep 45 dB at 1,000 Hz; AM sup 60 dB; alt-ch rej 55 dB; adj-ch rej 90 dB. AM section: sens 300 μV with built-in antenna. 16.5" w x 2.5" h x 9.75" d; 15 lb $250

AT-300 AM/FM Stereo Tuner
AM/FM-stereo tuner with Schotz noise reduction and remote control option; 20 station presets;



search & scan; PLL; FM sens 1.9 μv and 50 dB quieting sens (stereo) is 3.5 dB; THD 65 dBf 0.1%; S/N 75 dB; sep 50 dB $219

QUAD

FM4 FM Tuner
FM-stereo tuner designed to be used with Quad 44 preamp. Features no controls except 8 push-buttons to store/recall station presets, tuning knob, power switch; bar-graph meter to indicate signal strength, center-channel tuning; dedicated microprocessor that recalls desired station from memory, tunes it, automatically sets muting, automatic frequency control levels. Stations stored in memory remain there for up to 5 years, even with power disconnected. Available in anthracite grey. Mono/stereo 50-dB quieting sens 2.7/25 μV; mono/stereo S/N ratio 76/70 dB at 1 kHz, 1 mV A-wtd; mono/stereo distortion 0.05%/0.10% stereo; capture ratio 2.5 dB; sel 53 dB; image/i-f rejection 80/100 dB; FR 20-15,000 Hz +0/-1 dB; crosstalk 40 dB at 1 kHz; pilot-tone suppression 60 dB; deemphasis switchable 50/75 μsec; power consumption 6 V $595

RCA

MPT200 Audio/Video Preamp Tuner
Dimensia A/V control center with unified remote control and on-screen status indication when used with Dimensia monitor lets you select inputs from up to 13 Dimensia components and 5 non-system components. Features automatic input selection; remote control volume, mute, direct access and station scan, and off/on; SystemLink cabling; simultaneous recording and playback; auto status indication; auto switching; quartz-PLL synthesis tuning; 20-station random tuning memory; preset channel scanning; FM search tuning; electronic volume control; signal processing loop; preset turn-on volume; fluorescent display; muting; bass, treble, and balance controls; 4 AC convenience outlets. Tuner section: FM sens 12.2 dBf; S/N 73 dB (mono); image rejection 45 dB; sel 60 dB; FM FR 30-15,000 Hz; capture ratio 1.5 dB. 14.63" w x 4.13" h x 13.38" d $349

REALISTIC

TM-150 AM/FM-Stereo Mini Tuner
PLL tuning; stereo/mono switch; FM stereo LED; illuminated tuning dial; built-in AM and FM antennas; terminals for external FM antenna. 9" x 2.5" x 6" $60

The listings are based on data provided by the manufacturers. For more product information, contact an authorized dealer or the manufacturer directly. Manufacturers' addresses and phone numbers are listed in the directory beginning on page 226.

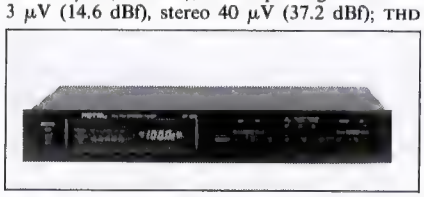
REVOX

B285 Tuner/Preamp
AM/FM stereo tuner/preamp with two microprocessors for control of input sensitivities, output levels, and operating functions. Features alphanumeric multi-mode LCD display; 29 AM or FM presets; level and reception mode (mono/stereo, blend) separately programmable for each preset station; programmable volume limit; −20 dB button; subsonic filter; loudness contour; programmable output levels for A and B speaker pairs; comprehensive speaker protection circuits; serial data bus for external control devices; wireless infrared remote control (transmitter optional). Inputs for phono, tape, CD player, tape 2. FM section: alternate-ch sel 96 dB; adjacent-ch sel 16 dB; 50-dB quieting sens, mono 1.6 μV (15.2 dBf), stereo 19 μV (36.8 dBf); max S/N, A-wtd, mono 84 dB, stereo 80 dB; THD mono 0.15%, stereo 0.3%; sep 43 dB at 1,000 Hz; capture ratio 2 dB. AM section: FR 120-3,000 Hz ± 6 dB; sens 36μV. 17.75" w x 6" h x 13.06" d; 33 lb $2,300

B261 Tuner
Microcomputer-controlled tuner with programming feature covering ID and frequency of 20 stations, including preferred mode of reception for each station. Features 20 station selector buttons; infrared remote control; two separate muting threshold buttons; high blend button; auto station scanning; LCD display indicates stations and frequency alphanumerically; sens 0.5 μV on 75 ohms for 26-dB S/N with 40-Hz deviation; usable sens mono 2 μV, stereo 20 μV on 75 ohms for a S/N ratio of 46 dB with 40,000 Hz deviation; capture ratio 0.8 dB for a S/N ratio of 30 dB; sel 80 dB tuned-in signal 100 μV on 75 ohms. FR 30-15,000 Hz ± 1 dB; harmonic distortion 0.07% at 1,000 Hz and 40,000 Hz deviation mono and stereo L-R mV input on 75 ohms; S/N 75 dB, 30 Hz 15,000 Hz linear referred to deviation of 75,000 Hz with an input of 1 mV on 75 ohms; stereo sep 100 Hz 10,000 Hz, 40 dB 1,000 Hz, 43 dB referred to deviation of 40,000 Hz and an input of 1 mV on 75 ohms; 17.75" w x 6" h x 13.06" d; 18.75 lb $1,800

ROTEL

RT850 AM/FM Tuner
Quartz-synthesizer tuner with microprocessor circuitry. Features 6 AM/6 FM presets, manual and autoscan tuning. FM section: usable sens mono 2 μV (11.2 dBf), 50-dB quieting sens mono 3 μV (14.6 dBf), stereo 40 μV (37.2 dBf); THD

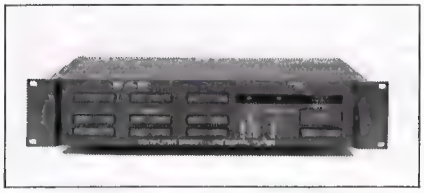


stereo 0.2%, mono 0.08% at 1,000 Hz; S/N 73 dB stereo, 75 dB mono; FR 30-15,000 Hz +0, −2 dB; capture ratio 1.0 dB; sep 48 dB at 1,000 Hz; AM suppression 58 dB; AM section: sens 300 μV/m; S/N 50 dB; 17" w x 2.56" h x 11.5" d; 8.5 lb$279

RT830 AM/FM Analog Tuner
AM/FM stereo tuner with LED indicators for signal strength; muting switch. FM section: usable sens mono 2 μV (11.2 dBf), 50-dB quieting sens mono 3.5 μV (16 dBf), stereo 50 μV (39.4 dBf); THD stereo 0.6%, mono 0.3% at 1,000 Hz; S/N 65 dB stereo, 70 dB mono; FR 35-13,000 Hz ± 1.5 dB; capture ratio 2 dB; sep 38 dB at 1,000 Hz; AM suppression 62 dB; AM section: sens 300 μV/m; S/N 45 dB; 17" w x 2.56" h x 12.56" d; 6.8 lb$179

SAE

T101 AM/FM Stereo Tuner
Computer direct-line digital tuner. Features 16 station presets (8 AM/8 FM); auto and manual tuning; signal-strength, multipath, and level indicators; IF narrow; high blend; memory scan. FM



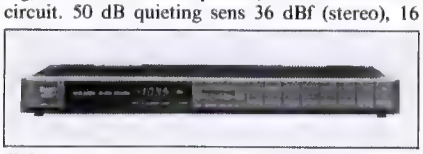
section: IHF sens stereo 3.9 μV (17 dBf); 50-dB quieting sens stereo 32 μV (35.3 dBf); THD stereo 0.08% at 1,000 Hz; S/N stereo 70 dB. FR 30-18,000 Hz +1, −2 dB; capture ratio 1.2 dB; sep 55 dB at 1,000 Hz; alt-ch rejection −100 dB narrow; adj-ch rejection −15 dB narrow; 20 lb; 19" w x 3.5" h x 12.5" d $650

T102 AM/FM Stereo Tuner
Computer direct-line digital tuner with 16 station presets; auto and manual tuning; IF narrow; high blend. FM section: IHF sens stereo 4.1 μV; 50-dB quieting sens 34 μV; THD stereo 0.08% at 1,000 Hz; S/N 70 dB stereo; FR 30-18,000 Hz +1, −2 dB; capture ratio 1.2 dB; sep 55 dB at 1,000 Hz; alt-ch rejection −100 dB narrow; adj-ch rejection −15 dB narrow. 19" w x 3.5" h x 12.5" d . $349

SANSUI

TU-X701 AM/FM Tuner
Vintage series tuner featuring random presets for 30 FM and AM stations; numeric keypad for recall; programming two station frequencies for unattended recording; memory scan; RF mode selection; IF bandwidth selection; record calibrator; FM noise canceller; mode switch. Usable sen 38.0dBf (stereo); THD 0.0095% (stereo); S/N 98dB; IF response (at 84MHz) 110dB. 17.63" h x 3.81" w x 11.81" d; 10.4 lb $475

TU-X301 AM/FM Tuner
Vintage series tuner features digital-synthesis tuning; 6 AM/6 FM station presets; FM noise canceller circuit. 50 dB quieting sens 36 dBf (stereo), 16



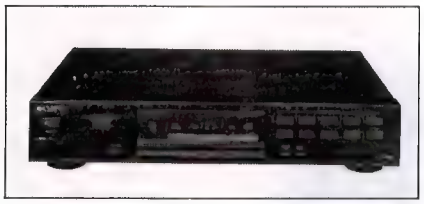
dBf (mono); S/N 72 dB (stereo), 78 dB (mono); capture ratio 1 dB. 17.69" w x 1.81" h x 8.94" d; 5.3 lb $290

TU-D33X Quartz Tuner
Digital synthesizer frequency front end; 6 presets for FM and 6 for AM; last station memory; stereo lock indicators. Selectivity 35dB; S/N 50dB; FM quieting sens 50dB. 16.94" w x 1.81" h x 8.94" d; 5.1 lb $250

SONY

ST-S700ES AM/FM Tuner
Features quartz frequency-synthesis tuning; SST super sound tracking front end that continuously shifts the center of the bandpass filter in response to the frequency modulations; WOIS wave optimized IF system to automatically select optimum filter characterics; WODD wave optimized direct PLL detector with low distortion and noise; WODSD wave optimized digital stereo decoder; direct comparator circuitry; 10 AM/FM station presets; multi-process memory to remember various station settings for each preset; memory scan; calibration tone presets for off-air taping. S/N 91 dB

TUNERS



stereo; FR 15-15,000 Hz +0.2, –0.5 dB; sel 65 dB. 17" w x 3.38" h x 13.62" d; 9 lb $400

ST-S500ES AM/FM Tuner
Features quartz frequency-synthesis tuning; WODD wave optimized direct PLL detector with low distortion and noise; WODSD wave optimized digital stereo decoder; direct comparator circuitry; 10 AM/FM station presets; multi-process memory to remember various station settings for each preset; calibration tone presets for off-air taping. S/N 84 dB stereo; FR 15-15,000 Hz +0.2, –0.5 dB; sel 55 dB narrow, 90 wide. 17" w x 3.38" h x 13.62" d; 9 lb $300

SOUNDCRAFTSMEN

T6200 AM/FM Stereo Digital Tuner
Digital quartz-PLL tuner with 16 station presets, 5-digit station readout, auto scan tuning, and active high-blend filter. 19" rack-mount front panel. IHF sens 1.6 μV; S/N 75 dB; distortion 0.08%. 2.36" h x 19" w x 12" d $299

TANDBERG

TPT 3001A Programmable FM Tuner
Features computer-type logic servo tuning system; 8-ganged varactor tuning diodes in front end, dual-gate MOSFET's in R-F and mixer stages; 8-station memory preset with touch-button recall and LED program readout; wide/normal/narrow IF bandwidth selector; autorange signal-strength with 1,000-meter-range LED, center tuning/preset frequency meters. Audio circuitry includes selected all-metal film resistors, polypropylene capacitors, and min negative feedback; mono, ANC, servo, mute switches with LED's; 3-circuit muting; output level control; S/N 90 dB; narrow sel 125 dB. Rosewood side panels optional . . $1,995

TPT 3031A Programmable FM Tuner
Remote controlled tuner with 4 ganged diodes; dual gate MOSFET's in RF stage; 16 station preset; manual/auto tuning; zero-negative-feedback au-

dio section. Remote control and rosewood side panels optional. 17.13" w x 3.25" h x 13.75" d; 11 lb $895

TECHNICS

ST-G7 AM/FM-Stereo Tuner
Features 16 presets; triple-quartz control (front-end i-f and MPX) for 120 dB i-f strip, quartz-controlled double-PLL DC-peak sample-and-hold MPX digital linear detector using 1-shot multivibrator and mirror-loaded current stablizer for wide dynamic range; auto i-f bandwidth; in/out computer interface. THD stereo 0.03%, mono 0.02%; S/N stereo 94 dB; capture ratio 1.0 dB; sens 20 μV; 9 lbs $500

ST-G6T AM/FM-Stereo Tuner
Features quartz synthesis. FM section: IHF sens mono 1.2 μV (12.8 dBf); THD stereo 0.03%, mono 0.02%; S/N 73 dB stereo, 80 dB mono. AM section: sens 20 μV with built-in antenna. 5.1 lbs $315

ST-G50 AM/FM-Stereo Tuner
Features 39 AM/FM presets; twin-quartz tuning; linear-switching MPX circuit for wide stereo sep and FR; DC construction. FM section: 50-dB quieting sens stereo 44 μV (38.1 dBf); THD stereo 0.03% at 1,000 Hz; S/N 73 dB stereo; capture ratio 1 dB. 4.8 lbs $240

ST-G40 AM/FM-Stereo Tuner
Features 16-station random-access preset memory and large LCD readout. FM section: 50-dB quieting sens stereo 44 μV (38.1 dBf); THD stereo 0.18% at 1,000 Hz; S/N 73 dB stereo; capture ratio 1 dB; separation 50 dB at 1,000 Hz. 4.8 lb $185

VECTOR RESEARCH

VU-1500 Tuner
Quartz PLL-synthesized tuner. FM section: alt-ch sel 60 dB; 50-dB quieting sens mono 3 μV (10 dBf); 50-dB quieting sens stereo 40 μV (37 dBf); max S/N A-wtd, mono 75 dB, stereo 73 dB; THD mono 0.08%; stereo 0.2%. 8.5 lb; 17" w x 3" h x 12.5" d $200

YAMAHA

T-85B AM/FM Digital Tuner
Features RS integrated system remote compatibility; CSL tuning; digital fine tuning; low-distortion high-separation pure-stereo MPX demodulator; 20-station random-access preset; 6-way status sta-

tion memory; 4-position IF mode selector (super-wide, wide, narrow, super-narrow); dynamic auto blend; signal-quality meter; switchable FM RF mode; zero IM mixer front end. 50 dB quieting sens (mono) 1.6 μV (15.3 dBf); S/N stereo 87 dB; sep 68 dB. 17.12" w x 3.62" h x 14" d $469
RMA-T80. Rack mount adaptor for T-85B . $18

TX-900U AM/FM Digital Tuner
Features RS integrated system remote compatibility; digital fine tuning; 3-position auto/manual IF mode selector; 20-station random access preset tuning; 4-way station memory; high blend; integrated multi-function LCD display. Black; 9 lb $379

TX-500U AM/FM Digital Tuner
Features RS integrated system remote compatibility; direct PLL IF count synthesizer tuning; 2-position IF mode selector; 20-station random access preset tuning; 4-way station memory; high blend; integrated multi-function LCD display $269

TX-400U AM/FM Digital Tuner
Features RS integrated system remote compatibility; direct PLL synthesizer tuning; 16-station random access preset tuning; integrated multi-fundtion LCD display; auto-search tuning; manual up/down tuning. Black; 7 lb $219

For explanations of abbreviations, specifications, and technical terms, consult the glossary on page 221.

NATIONWIDE
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Sony Strav 950	$497
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Yamaha RX 700	$439
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Pioneer CLD909	$649
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Sony CDPCSF	$349
Sony CDP310	$239
Yamaha CD1000	$439
Yamaha CD700	$359

TURNTABLES-CARTRIDGES

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B&O RX-2	$189
Denon DP23F	$197
Dual CS505 II	In
Dual CS5000	Stock
Thorens TD316	$209
Thorens TD320	CALL
Yamaha PF1000	$389
B&O MC3	$149
Ortofon X3MC	CALL
Talisman S	$189

CASSETTE DECKS

Denon DRM07	$169
Denon DRM20	$297
Denon DRM30HX	CALL
Harman Kardon TD302	$369
Harmon Kardon CD491	In Stock
NAD 6155	$349
Nakamichi CR7A	$1299
Nakamichi BX 300	$679
Nakamichi BX 125	In Stock
Sony TCWR 930	$449
Tanberg TCD 3014	$1429
Yamaha KX1200	$559
Yamaha K720	$379
Yamaha K142	$189

SEPARATE COMPONENTS

Adcom GFA 535	$249
Adcom GFA 555	CALL
Carver M500T	$498
Carver M1.0T	$399
Carver C-1	$495
Carver TX-2	$329
Denon PMA 500	$292
Denon TU 600	$259
Denon POA 2200	$529
Hafler DH500A	$649
NAD 2200	$449
NAD 2600	CALL
Proton D1200	$489
Yamaha A1020	$489
Yamaha C85	$579
Yamaha T1020	$279
Yamaha DSP1	CALL

SPEAKERS

ADS L1090	$890
Advent Legacy	$359
Advent Prodigy	$229
AR TSW 410	$392
B&W Matrix 1	$769
B&W 1101	$298
Celestion DL6	$279
Design Acoustic PS8A	$269
DBX Soundfields	In Stock
JBL L100T	CALL
JBL Pro III	$198
Koss 100 Plus	$159
Mission 737R	$479

VIDEOS & T.V.'S

Mitsubishi 422	$798
NEC DX 5000	In Stock
NEC 965U	$689
Pioneer LD838	$439
Pioneer VH900	$829
NEC 2660	$639
Proton 619A	$589
Proton 625	CALL
Sony 2781R	$799
HK VMP500	In Stock

CAR STEREO

Alpine 7902	$685
Alpine 7263	$257
Blaupunkt Denver	$229
Clarion 8825	$289
Carver TX-9	$639
Carver 240	$279
Denon DCR7600	$397
Kenwood KRC 636	$389
Nakamichi TD 300	$346
Nakamichi TD 700	$719
Nakamichi PA 200	$198
Proton 203CD	$247
Soundstream TC308	$539
Sony CDAX10	CALL
Sony CDXR88	$579

VISA MASTER CARD AMEX

Ad Represents Small Percentage of Inventory!
Please Call for Products Not Listed!
Price and Availability Subject to Change

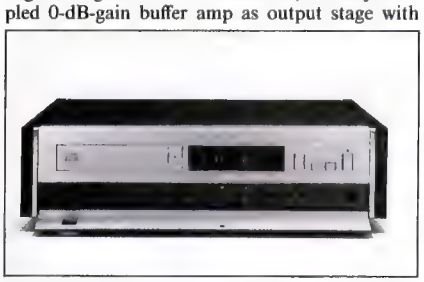
CIRCLE NO. 88 ON READER SERVICE CARD

COMPACT DISC PLAYERS

ACCUPHASE BY MADRIGAL

DP-80/DC-81 Two-Part CD Player
DP-80 transport plays discs and DC-81 digital processor converts digital signals to analog; optical fiber cable. DP-80 features 1 master clock; linear motor laser pickup; <1-sec selection time; ceramic-resin mounting floated from chassis; play, search, pause, skip back, fast forward, fast reverse, repeat disc or phrase; cues by track number; displays current track number. DC-81 features D/A converter with discrete elements; wideband optical-fiber inputs; 16-bit digital signal and deglitch signal for each ch input to D/A converter through 17 optoisolators; 121-stage double-oversampling digital filter per ch; 9-pole GIC Butterworth active filters; direclty coupled 0-dB gain buffer amp as output stage; de-emphasis circuit consisting of passive elements and buffer amp; independent power transformer for each digital and analog circuit; fixed- and variable-level audio output; XLR-type balanced output; connects to other CD players with 75-ohm coaxial-cable terminal. $8,000

DP-70 Remote-Controlled CD Player
Play, track search, pause on front panel; number keypad, stop, repeat (all, 1, phrase), index search, display (track and index or time), scan, and output-level controls behind panel; fixed and variable RCA outputs; XLR balanced output; 75-ohm coaxial cable output; optional wide-band optical-fiber output; digital output pins; track selection in <1 sec with linear motor; 4-times oversampling (176.4 kHz) digital filters; discrete digital-to-analog converter; 5-pole GIC Butterworth low-pass filters; isolating optocouplers; independent power supply for digital and analog circuits; 4 optocouplers input digital data, latch clock signal, deglitch signal to D/A converter; directly coupled 0-dB-gain buffer amp as output stage with



push-pull DC servo direct coupling; metal shielding; passive elements and buffer amp in de-emphasis circuit; ceramic composite resin floating mounting; legs lathed from pure brass bar; hairline-finish golden panel and natural persimmon sideboard; infrared remote needs 2 AA batteries. Pass-band ripple of digital filters ± 0.00005 dB with attenuation of <100 dB; 46.4 lb $5,000

ACOUSTIC RESEARCH

CD-04 Compact Disc Player
Drawer-loading CD player with proven 14-bit quadruple oversampling DAC system. Features programming of 99 tracks in any order, 99 tracks in sequential order; skip forward; skip back; fast forward; fast reverse; time/track selection; repeat track, disc; full-function remote control; 1-beam laser; 14-bit digital filtering; dual D/A converter. Oversamples at 176.4 kHz. Displays current track number, elapsed time of current track, elapsed time on disc, remaining time on disc. 17″ w x 4.33″ h x 14.5″ d $490

ADC

16/2R Compact Disc Player
Slide-drawer-loading CD player with full-function remote control and advanced error-processing circuitry for precise tracking and stability. Features programming of 16 tracks in any order; skip forward; skip back; fast forward; fast reverse; cancel; repeat track, disc, or program; 7-pole (7th-order) analog filtering; 3-beam laser. Cues by track number. Samples at 44.1 kHz. Displays current track number, elapsed time of current track; remaining time on disc; program in memory. 17″ w x 3.12″ h x 11.75″ d; 10 lb $250

a/d/s/

Atelier CD3 CD Player
Programs 30 tracks in any order; sound audible during fast forward and fast reverse; skip forward; skip back; fast forward; fast reverse; cancel; repeat track, disc, phrase, program; headphone jack with adjustable level; digital filtering (resampling frequency 88.2 kHz); 3-beam laser. Displays current track number, elapsed time of current track, remaining time on disc, program in memory. Cues by track number, index number. Max line output 2 V; headphone output 2 V; 20 lb; 17.5″ w x 2.75″ h x 14.8″ d $1,399

Atelier CD4 Compact Disc Player
Cast laser and transport assembly shock mounted with rubber isolators, aluminum and steel chassis/housing, and multiple power supplies to isolate digital and analog stages for minimum interaction and noise generation. Servo-laser intensity system switches focus intensity depending on quality of disc to maximize performance. Brick-wall digital filter works in conjunction with advanced multiple-pole low-pass filter. Error correction uses variable-size window; 16-bit D/A converters; fast-focus 3-beam laser; programming of 16 tracks in random order; repeat disc, track, phrase, or program; random access by time within a track; access by index point; audible fast search. Displays elapsed time from track start, remaining time to disc end, track/program selection number, index, program in memory . . $999

RC1 Unified Remote Control
Infrared wireless remote control for CD3, CD4, and other Atelier components $100

AIWA

XC-001 Compact Disc Player
Features remote control; programming of 20 tracks in any order; timer play function; repeat disc and program; audible 2-speed cue and review; auto blank system; 10-key direct-access pads on front panel and remote; comprehensive FL display. Oversamples at 176.4 kHz. 16.94″ w x 3.9″ h x 12.06″ d; 9.9 lb $500

DX-1500 Compact Disc Player
Drawer-loading CD player with 9-function remote control. Features programming of 16 tracks in any order, 99 tracks in sequential order; skip forward; skip back; fast forward; fast reverse; cancel; repeat track, disc, program; headphone jack with adjustable level; sound audible during fast scan. Samples at 44.1 kHz. Displays current track number, elapsed time on disc, program in memory, remaining time on disc. 13″ w x 2.89″ h x 11.75″ d; 7.5 lb $295

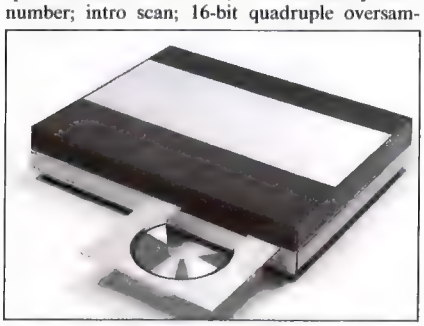
AKAI

CD-A70-B Easy-Programming CD Player
Programs virtually unlimited number of tracks with AND, TO and WITHOUT keys (to play tracks 1, 5, 10, 11, 12, 13, 14, 16, 17, 18, press 1 AND 5 AND 10 TO 18 WITHOUT 15); skip forward; skip back; fast forward; fast reverse; cancel; repeat track, disc, phrase, program; 32-function remote control; 3-beam laser; 90-dB per octave digital filter; 7th-order active analog filter; single D/A converter; sound audible during fast scan. Cues by track and index number. Oversamples at 88.2 kHz. Displays current track number, elapsed time of current track, elapsed time on disc, program in memory. Anti-resonant construction including high-polymer cabinet, insulated floating suspension, and support feet for accurate tracking; gold-plated RCA jacks; subcode terminal; stabilized servo control system; independent left/right monaural amps. 17.3″ w x 3.1″ h x 10.2″ d; 8.6 lb $399

CD-A305-B Remote-Controlled CD Player
Programs 36 tracks; headphone jack; multi-function display; 2-times oversampling digital filter $329

BANG & OLUFSEN

Beogram 5500 Programmable CD Player
Integrates with Beosystem 5500; programs 20 tracks; adds time of programmed tracks; displays time remaining on disc; skip forward and back; 3-speed forward and reverse; direct access by track number; intro scan; 16-bit quadruple oversam-



pling; Bessel elliptical analog filters; auto space; silver and black; controlled by Master Control Panel (comes with Beomaster 5500 receiver); 2 digital-to-analog converters; digital output. 16.5″ w x 3″ h x 12.75″ d $999

Beogram 3300 Remote-Controlled CD Player
Communicates with other Beosystem 3300 com-

ponents (stops when cassette deck comes to end of tape; deck stops when disc ends); front panel displays operating status; sensi-touch controls; display of track number, index number, track time, time left on disc; skip forward and back; 4-sec auto space; optional bracketed shelf for wall mounting; 16-bit, quadruple oversampling. 16.5" w x 3" h x 12.25" d $699

Beogram CDX Top-Loading CD Player
Skip forward and back; clear key cancels unwanted tracks or cancels program; quadruple oversampling; search without program audible; digital and analog filters; displays track numbers (up to 20), programmed tracks, elapsed time of track or disc, current track and index number; programs 40 tracks in any order; repeats disc or program up to 4 times; 14-bit digital-to-analog conversion; integral output cable. 16.5" w x 3" h x 12.25" d; 12.4 lb $699

CAMBRIDGE AUDIO

CD1 Compact Disc Player
Features 2 chassis (1 for decoders and other for playing mechanism); 3 separate power supplies; 3 separate 16-bit decoders/ch; 19-bit resolution yield; 6 analog filters; D/A converters; isolated CD tray; solid-wood end panels. 17.5" w x 5" h x 11" d; 20 lb $2,800

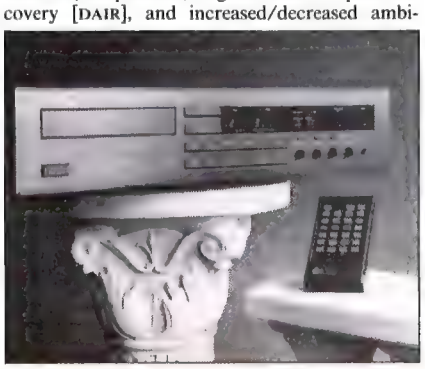
CARVER

DTL-200 Mk II Remote-Controlled CD Player
With 3-beam laser and Digital Time Lens circuitry to change frequency balance and ratio of L−R and L+R. Programs 12 tracks in any order, 99 in sequential order; skip forward; skip back; fast forward; fast reverse; cancel; repeat track, disc, phrase, and program; 24-function remote control; quadruple oversampling (at 176.4 kHz); error indication; dual D/A converters. Cues by track and index number. Displays current track number, elapsed time of current track, elapsed time on disc, remaining time on disc, program in memory. Sound audible during fast forward and reverse $699

DTL-50 Remote-Controlled CD Player
With 3-beam laser and Digital Time Lens. Programs 9 tracks in any order, 99 in sequential order; skip forward; skip back; fast forward; fast reverse; cancel; repeat track, disc, phrase, and program; 12-function remote control; 88.2 kHz oversampling; dual D/A convertors. Cues by track and index number. Displays current track number, elapsed time of current track, elapsed time on disc, remaining time on disc, program in memory. Sound audible during fast forward and reverse $559

dbx

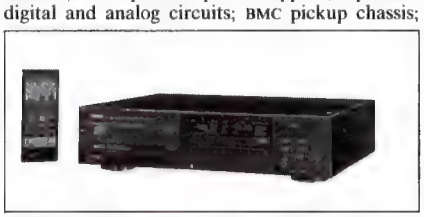
DX5 Sound-Processing CD Player
Remote-controlled CD player with 3 processing circuits (compression, Digital Audio Impact Recovery [DAIR], and increased/decreased ambience), each independently bypassable. The compression control is for background listening, making car cassettes, and easier taping of CD's; DAIR adds impact to musical transients; ambience adds or subtracts left-right information in midrange and treble frequencies. Features programming of 16 tracks in any order; repeat track, disc, program, or A-B phrase; skip forward; skip back; audible fast forward and reverse; error LED to show disc correction; headphone jack with adjustable level; dual 16-bit D/A converters; advanced error processing; 2-band compressor; impact circuit. Displays track number, total tracks, elapsed time of track, disc time, and program stored in memory. Cues by track or index number. Oversamples at 176.4 kHz. 17.12" w x 11.88" d x 3.5" h $699



DX3 Compact Disc Player
Drawer-loading CD player with a 3-beam laser, digital filter with a 2-time oversampling frequency (88.2 kHz), and 3 dbx signal-processing circuits: DAIR, compression control, and ambience control (see above). Features programming of 9 tracks in any order; repeat track, disc, or program; cancel; skip forward; skip back; audible forward/reverse scan. Cues by track and index number. Displays current track number and elapsed time of current track. 17.12" w x 3.69" h x 11.44" d $599

DENON

DCD-3300 Compact Disc Player
Features double super-linear converter; quadruple oversampling digital filter; CALP filter; LC-OFC analog filter; twin power transformers; optical isolator; 5 independent power supplies; separated digital and analog circuits; BMC pickup chassis;



digital-output terminal; optical digital output terminal; headphone jack; 20-track random programming; 10-key direct selection; index search; time search; repeat function; auto space; timer play; remote control; emphasis display; 8-digit FL display $1,700

DCD-1700 Compact Disc Player
Features double super-linear converter; quadruple oversampling digital filter; CALP filter; LC-OFC analog filter; 5-independent power supplies; separated digital and analog circuit; BMC pickup chassis; digital-output terminal; headphone jack; 20-track random programming; 10-key direct selection; index search; time search; repeat function; auto space; timer play; remote control; emphasis display; 8-digit FL display $900

DCD-1500II Compact Disc Player
Features double super-linear converter; quadruple oversampling digital filter; LC-OFC analog filter; optical isolator; 4-independent power supplies; BMC pickup chassis; digital-output terminal; optical digital output terminal; headphone jack; 20-track random programming; 10-key direct selection; index search; A-B repeat; repeat function; auto space; auto edit; timer play; remote control; emphasis display; 8-digit FL display $675

DCD-900 Compact Disc Player
Features super-linear converter; double oversampling digital filter; LC-OFC analog filter; 4-independent power supplies; headphone jack; 20-track random programming; 10-key direct selection; A-B repeat; repeat function; auto space; timer play; remote control; emphasis display $480

DCD-800 Compact Disc Player
Features super-linear converter; quadruple oversampling digital filter; LC-OFC analog filter; 2-independent power supplies; headphone jack; 20-track random programming; 10-key direct selection; repeat function; auto space; auto edit; timer play; remote control; emphasis display; 8-digit FL display $380

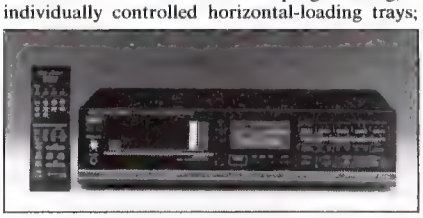
DCD-600 Compact Disc Player
Features super-linear converter; double oversampling digital filter; 2-independent power supplies; headphone jack; 15-track random programming; 10-key direct selection (remote only); repeat function; timer play; remote control; emphasis display; 6-digit FL display $300

EMERSON

CD170R Remote-Controlled CD Player
Programs up to 15 tracks in any order; skip forward; skip back; 2-speed fast forward and reverse; index search; repeats disc, program, phrase; displays total tracks, total playing time, current track number, elapsed time; 3-beam laser; play and pause indicators. 17.1" w x 2.8" h x 4" d$350
CD160. Similar to CD170R except lacks remote control $300

FISHER

DAC-205B Compact Disc Changer
5-disc CD changer with 30-button wireless remote control. Features 32-track programming; 5 individually controlled horizontal-loading trays;



10-second intro-scan; random playback; direct-access track search; skip forward/back; forward/reverse scan; 4-way repeat; multi-function display $500

AD-923RB Compact Disc Player
Features 6-function wireless remote control; 16-track programmable with scan function; skip forward/back; display of track/index; 3-beam laser; digital filtering; remote compatible with Fisher receivers $300

AD-815B Compact Disc Player
Features 6-function wireless infrared remote control; 8-selection programmable with scan function; skip forward/back; all/one/off repeat function with LED indicator; digital display of track and index numbers; index search; 3-beam laser with digital filtering $250

AD-924B Compact Disc Player
Features 16-track programmable with scan function; skip forward/back; display of track/index; 3-beam laser; digital filtering $250

GOLDSTAR

PCD-N1 CD Boombox
CD section: skip forward and back; programs in any order; repeats track or program; displays track number and elapsed time of track; synchronized dubbing to cassette; FR 20-20,000 Hz; THD 0.07%; S/N 90 dB; dynamic range 85 dB; sep 80 dB; ch bal ± 0.5 dB. Cassette section: soft-touch controls; auto stop; auto rec level; bias/EQ for normal, high-bias, metal tape; Dolby B NR; W&F ± 0.35%; FR 63-14,000; S/N 52 dB no NR, 60 dB with Dolby B; 3 heads. Tuner section: FM stereo and mono (87.5-108 MHz), MW (515-1630 kHz),

LW (140-290 kHz), SW (5.8-18.5 MHz); AFC;. Amplifier section: 5-band graphic equalizer; slide controls for balance and volume; power output 7.5 W/ch rms. Detachable speakers; 4.75" woofers, 2" tweeters. RCA inputs and outputs; mini jack for headphones; mini jack for external speakers. 27.75" w x 9.5" h x 12.9" d $400

GCD-613 Programmable CD Player
Programs 9 tracks in any order; repeat disc and program; forward and reverse scan; displays total time, elapsed time, track number; digital and active filter. FR 5-20,000 Hz ± 1.5 dB; dynamic range >90 dB; S/N >90 dB at 1,000 Hz; output 2 V rms; THD 0.03%. 13.6" x 3.6" x 11" ... $250

HARMAN KARDON

HD300 Remote-Controlled CD Player
Wireless remote control; programs 15 tracks in any order; skip forward; skip back; fast forward; fast reverse; cancel; repeat track, disc, phrase and program; cues by track number; 3-beam laser; single D/A converter; 16-bit linear-conversion digital filtering, oversampling at 88.2 kHz; all discrete, gradual analog filter $575

HD100 Programmable CD Player
Programs 36 tracks; track and index search; audible 2-speed forward and reverse; displays track number, elapsed time, and program number, or total tracks, total time on disc, and remaining time; metal chassis..... $375

HITACHI

DA005 Remote-Controlled CD Player
Direct PIT servo; 5-stage error correction; 121-band digital filter; programs 15 tracks in any order; skip forward and back; fast forward and reverse; cancel; repeat track, disc, phrase, program; cue by track; 28-function remote; headphone jack; adjustable headphone level; 3-beam laser; 1 D/A converter; displays current track number, elapsed time of current track, remaining time on disc; sound audible during fast scan. Headphone output 2 V; 11 lb..... $550

DAC-60 Remote-Controlled 6-CD Changer
Magazines hold 6 discs or single disc; digital filtering; programs 32 tracks from unit or remote; repeats all 6 discs; random play; 2-speed audible search in forward and reverse; headphone jack with level control; displays disc number, track number, elapsed time of disc, total playing time, number of tracks on disc $399

Following models all have 3-beam laser, self-program search, index search, and random play.

DA-009 Remote-Controlled CD Player
10-key direct random access; Roulette Play begins sequential play with random track; programs 24 tracks; 5-way repeat; skip; 2-speed search; display shows programmed tracks; 121-step digital filtering; low-vibration pickup $300

DA-405 Remote-Controlled CD Player
Remote volume control; 10-key direct random access; floating suspension; timer play; programs 15 tracks; 4-way repeat..... $250

DA-400 Programmable CD Player
Programs 15 tracks; floating suspension; 2-speed search; repeat; timer play $200
DA-7000. Similar to above except midi-sized and programs 24 tracks $190

JVC

XLV1100BK Compact Disc Player
Drawer-loading CD player with wireless remote control with numeric keypad for direct track access, programming, and volume control. Features 15-track random programming; 3-beam laser pickup; separate chassis for analog, digital, and servo circuits; Y-servo system with high-balance and high-trackability servos; V-sensor to prevent mistracking caused by vibration; independent suspension system; digital filter; quadruple oversampling; Gm deglitcher; 2-speed search; index search; intro-scan; index play; index skip; track skip; headphone jack with adjustable level; 2 outputs (one fixed, one variable); JVC Compu-Link remote system compatible $1,000

XL-M700BK Disc Changer
Drawer-loading CD player with an automatic changer, 6-disc magazine, and single-disc tray for 7-disc playback. Features programming of 15 tracks in any order from 7 discs; programming and transport functions via wireless remote control; Y-servo system; oversized fluorescent display; direct track access with 21-key touch pad; continuous, programmed, random, and timer play; skip forward; skip back; fast forward; fast reverse; cancel; repeat track, disc; headphone jack with adjustable level; digital filtering; single D/A converter; sound audible during fast scans; Compu-Link remote system compatible. Cues by track number. Oversamples at 88.2 kHz. Headphone output 2 V $600

XL-M500BK Multi-Disc Compact Disc Player
"6 + 1" CD changer with six-disc magazine plus conventional disc drawer. Features 32-track random programming; random play; intro scan; programming and transport control via wireless remote control; 3-beam pickup; Y-servo system; independent suspension system; digital filter; JVC Compu-Link system remote compatible ... $550

XLV550BK Compact Disc Player
Drawer-loading CD player with wireless remote control with numeric keypad for direct track access and volume control. Features 3-beam laser pickup; Opticalink system; Y-servo system; independent suspension system; large insulators; vibration-damping base; radial chassis base; discrete digital filter; separate power supplies for digital and analog circuits; editing key; program chart; 32-track random programming; random play; intro scan; real time; 5-way repeat; index play and skip; multi-mode/8 digit FL display of tracks and times; motor driven line-out/headphone volume control; 2 gold-plated outputs (one fixed level, one variable); JVC Compu-Link system remote compatible $450

XLV450BK Compact Disc Player
Drawer-loading CD player with wireless remote control with numeric keypad for direct track access and volume control. Features 3-beam laser pickup; Y-servo system; independent suspension system; digital filter; editing key; program chart; 32-track random programming; random play; intro scan; real-time programmable; 5-way repeat; index play and skip; multi-mode/8-digit FL display; JVC Compu-Link system remote compatible $315

XLV250BK Compact Disc Player
Drawer-loading CD player with 3-beam laser pickup. Features Y-servo system; independent suspension system; digital filter for low noise; 15-track random programming; repeat all tracks or programmed tracks; 2-speed search; skip forward/reverse; 6-digit LCD display; headphone output; JVC Compu-Link system remote compatible..... $260

KENWOOD

DP-3300D Compact Disc Player
Basic series CD player with full-function wireless remote control. Features optical interface with KA-3300D amplifier; coaxial digital ouptut; pure digital output switch; twin high-speed ladder network 16-bit D/A converters with FET input; quadruple oversampling digital filters; 7-pole Butterworth FDNR analog low-pass filter; high-rigidity and multi-insulation; independent power supplies; Optimum Servo Control Type III; 3-beam laser; rapid direct-play system; 4 play modes; 6-mode real time display; 20-track random program memory; A-B section repeat; music skip; index search key; audible manual search; auto spacing; repeat; music calendar display; auto open switch; auto loading; headphone jack with level control; phase inverter switch. THD 0.001%, dynamic range 97 dB, separation 115 dB, S/N 105 dB (all at 1,000 Hz). 17.31" wide x 4.31" high x 12.44" deep; 22.1 lb..... $850

DP-990D Compact Disc Player
Basic series CD player with full-function wireless remote control. Features high-rigidity mechanism; multi-insulation system; 16-bit integrator D/A converter with constant-current drive; double oversampling digital filter; discrete 7-pole Butterworth low-pass filters; independent power supplies and optimum ground pattern; Optimum Servo Control Type III; 3-beam laser; rapid direct-play system; 4 play modes; dual time display; 20-track random program memory; A-B section repeat; music skip; track search; audible manual search; auto spacing; repeat; auto loading; headphone jack with level control. THD 0.002%, dynamic range 96 dB, sep 98 dB, S/N 98 dB (all at 1,000 Hz). 17.31" w x 3.69" h x 12.31" d; 11 lb $460

DP-860 Compact Disc Player
CD player with wireless remote control. Features 20-track random programming; Optimum Servo control; 3-beam laser; double oversampling digital filter; 10-key input; track skip & search; total/track playing time, track number, memory display; repeat; headphone jack. THD 0.007%, dynamic range 92 dB (at 1,000 Hz). Kenwood unified-remote system compatible. 16.56" w x 3.44" h x 10.31" d; 8.3 lb $280

DP-560 Compact Disc Player
Features 20-track random programming; Optimum Servo control; 3-beam laser; double oversampling digital filter; track skip & search; total/track playing time, track number, memory display; repeat; headphone jack. THD 0.007%, dynamic range 92 dB (at 1,000 Hz). Remote controlled with 10-key direct access through Kenwood unified-remote system. 16.56" w x 3.44" h x 10.31" d; 8.3 lb $280

KINERGETICS

KCD-30 Gold Series Remote CD Player
Volume and balance controls on front panel to drive power amp directly; dynamic processing circuits; corrected-slope filter; hysteresis-distortion cancelling circuit; no capacitors in signal path; servo loop to eliminate DC offset; 3-speed search; dual D/A converters; 1-beam laser; 4-times oversampling; spring-isolated transport; program memory for 226 discs; indexing; 19" rack mount. Output level 4 V; 14 lb; 19" w x 3.75" h x 12.6" d.....$1,495

KCD-20AR Gold Series CD Player
Features remote control; volume and balance controls on front panel; high-output voltage with ability to drive power amp directly; dynamic processing circuits; remote power supply; dual D/A converters; single-beam with quadruple oversampling; spring isolation of transport; full-function display; indexing $995
KCD-20A. Same as above without remote control $895
KRC-20. Add-on remote external eye..... $99

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COMPACT DISC PLAYERS

KYOCERA

DA-910 Remote-Controlled CD Player
1-beam laser; digital filtering; programming of 24 tracks in random order; display of current track number, elapsed time of current track, remaining time on disc, program stored in memory; skip forward; skip back; cancel; repeat track, disc, phrase, program; cue by track number, index number; 8-function remote control; headphone jack (adjustable output). Max line output 5 V; THD at 1,000 Hz 0.005%; S/N 95 dB; sep 90 dB; FR 5-20,000 Hz ± 0.5 dB; 22 lb; 17" w x 5.5" h x 13" d $1,600

DA-710 CX Remote-Controlled CD Player
Programs 24 tracks in any order, 99 tracks in sequential order; skip forward; skip back; fast forward; fast reverse; cancel; repeat track, disc, phrase, program; 39-function remote control; headphone jack with adjustable level; digital filtering; 3rd-order analog filtering; dual D/A converters; sound audible during fast scan. Cues by track and index number. Displays current track number, remaining time on disc, and program in memory. Headphone output 50 mW. 18.12" w x 3.56" h x 12.12" d; 13 lb $800

DA-510CX Remote-Controlled CD Player
Quadruple oversampling digital filters; 2 discrete D/A converters; headphone jack with adjustable volume; gold-plated RCA jacks; 39-function remote control; programs 20 tracks; optical isolation between digital and analog sections; digital output; walnut veneer side panels $650

DA-610CX Remote-Controlled CD Player
3-beam laser; 24-key hand-held remote control can be used in system remote or separately; skip forward; skip back; fast forward; fast reverse; cancel; repeat track, disc, program; programs 15 tracks in any order, 99 tracks in sequential order; headphone jack with adjustable level; 9th-order analog filtering; single D/A converter; sound audible during fast scan. Displays current track number, remaining time on disc, program in memory. 18.12" w x 3.56" h x 12.12" d; 11.11 lb $550

DA-410CX Remote-Controlled CD Player
10-button keypad on front panel and remote; programmability; compatible with timers; anti-resonant construction; ceramic chassis spacers; zirconia ceramic laser guide shafts; double oversampling; 16-bit D/A conversion; 3rd-order Bessel-derived analog filters; fluorescent display; headphone jack with level control; walnut veneer side panels $500

DA-310CX Remote-Controlled CD Player
Anti-resonant construction; zirconia ceramic laser guide shafts; 2-times oversampling; 16-bit digital-to-analog conversion; 3rd-order Bessel-derived analog filters; fluorescent display; headphone jack with level control; walnut veneer side panels $350

Remote-Control Accessories
RC-101 Control Center. Wireless remote control center for selection/function control of Kyocera remote control products. Features single-cable interconnect to units; 2 external remote sensor inputs; manual override $320
RS-103 Sensor. Features single-cable connection to Kyocera RC-101 control center and external remote-control sensor. Allows multi-room remote control of Kyocera remote-capable CD players, receivers, cassette decks $90
RT-102 Transmitter. Handheld wireless remote transmitter with 12 receiver, 6 tape deck, and 5 CD player functions. Auto system power on/off. Controls functions on Kyocera's remote models directly or through sensors $60

LUXMAN

D-03 Compact Disc Player
Drawer-loading CD player with 7-function remote. Features 1-beam laser; programming of 20 tracks in random order; skip forward/reverse; fast forward/reverse; cancel; repeat track, disc, program. Displays current track number, elapsed time of current track/current disc; remaining time; program stored in memory. Cues by track number, index number, time. Max line output 2 V; THD at 1,000 Hz 0.003% at −97 dB; FR 5-20,000 Hz −0.5 dB; 17.81" w x 3.31" h x 13.75" d; 18.7 lb $1,500

D-109 Remote-Control CD Player
Features full-function remote control; serial remote jacks for connections to other Luxman products; digital output sends digital signal to Luxman LV-109 integrated amp; 1-4 time display functions; programs up to 20 tracks; index scan;

A-scan plays first 10 sec of music; A/B switch to mark beginning and end of selected track(s) for repeat; memory check. FR 5-20,000 Hz (−0.5 dB); THD 0.003% (1 kHz); S/N, dynamic range 100 dB; 17.25" x 4" x 15.25"; 27.5 lb ... $1,500

D-113 Programmable CD Player
Double oversampling digital filter; active 3rd order analog low pass filter; 3 beam laser; system remote capability; 16 program random memory. FR 5-20,000 Hz (+0.5/−1.0 dB); THD 0.007%; S/N 94 dB; dynamic range 93 dB $650

D-102 Programmable CD Player
15 track programmability; skip functions; 10 key input; memory call switch; repeat; headphone level control; timer play switch. FR 5-20,000 Hz −0.5 dB; THD <0.004%; S/N >96 dB; dynamic range >96 dB. 17.23" w x 3.38" h x 12.31" d; 11.9 lb $550

D-90 Remote Control CD Player
15 program random memory; separate power supplies for analog and digital circuits; 3 beam laser; track/index, track elapsed time and disc remaining time display; headphone level control. FR 20-20,000 Hz +0.5/−1.0; THD 0.005%; S/N 91 dB; dynamic range 90 dB $450

MAGNAVOX

CDV474 CD-V/LaserVision CD Player
Remote-controlled combination player for CD-Audio, CD-Video, and LaserVision discs. Auto ID of disc type; programming. Video features in-

clude fast motion; slow motion; reverse play; freeze frame; random access ..... $749-$799

CD8850 CD/Cassette/Radio Boombox
Boombox with CD player, cassette, 5-band graphic EQ, tuner, amplifier, detachable 3-way speakers. Cue and review on CD and cassette; 3-way power supply. CD player features skip and back; headphone jack with adjustable level. Displays current track number. Max rms power output 7 W/ch. 10" w x 8.75" h x 6.25" d (no speakers); 22.5" w x 8.75" h x 6.25" d (with speakers) $500

CDB650 FTS CD Player
Favorite Track Selection (FTS) memorizes programs from various disc (up to 785 tracks). Extra altered output; music scan; single play; digital output for CD graphics, CD-ROM; skip forward; skip back; 3-speed FF and reverse; 4-sec record-pause insertion; anti-jamming protection; repeat track, disc, program; headphone jack with adjustable level; infrared remote control; 1-beam laser; low-order low-pass digital filtering; high-order analog filter; dual D/A converters. Cues by track number. Oversamples at 176.4 kHz. Displays current track number, elapsed time of current track, elapsed time on disc, remaining time on disc. Headphone output 0-5 V. 16.5" w x 3.5" h x 11.75" d; 9.75 lb $480

CD8880 CD/Cassette/Radio Boombox
Vertical-loading CD player, tuner, cassette deck, 5-band graphic EQ, 2-way speakers in portable boombox. CD-to-cassette dubbing; cue and review on CD and cassette; 3-way power supply. CD player has skip forward and back; FF and reverse; headphone jack with adjustable level; 1-beam laser; dual D/A converters. Cues by track number. Displays current track number. Min rms output power 3.5 W/ch; 26" w x 6.75" h x 6" d $400

CDB473 FTS CD Player
Favorite Track Selection (FTS) memorizes programs from various discs (up to 785 tracks); touch-close drawer; 24-function remote control with 10-digit keypad and volume control .. $379

CDB472 Remote-Controlled CD Player
Programs 20 tracks in any order; dual 16-bit D/A converters; headphone jack; 6-function remote; skip forward and back; 3-speed search (audible at 2 slower speeds); repeat; index access; quadruple oversampling digital filtering. Displays track number, index number, minutes, seconds, total tracks or total time, with indications for power, memory, errors, pause, repeat $330

CDB560 Remote-Controlled CD Player
16-bit D/A converter and 8-function infrared remote; programs 20 tracks in any order; skip forward and back; FF and reverse; repeat track, disc; dual D/A converters. Oversamples at 176.4 kHz. Displays current track number, elapsed time of current track. 16.5" w x 3.5" h x 11.75" d; 9 lb $330

CDB471 Programmable CD Player
Programs 20 tracks in any order; 3-speed search (music audible at 2 slower speeds); quadruple oversampling digital filter; dual 16-bit D/A converter; skip forward and back; time or track display $280

CDB460 Programmable CD Player
16-bit dual D/A converters; programs 20 tracks in any order; skip and back; FF and reverse. Oversamples at 176.4 kHz. Displays current track number, elapsed time of current track. 16.5" w x 3.5" h x 11.75" d; 10 lb $250

MARANTZ

CD-94 FTS CD Player
Features dual 16-bit converters, quadruple over-

sampling, digital outputs with optically coupled link to optional CDA-94 separate D/A converter; Favorite Track Selection memorizes over 200 disc programs; shuffle play; random track programming; intro scan; three independent power supplies for digital, analog, and mechanical sections; wireless remote with full programming capabilities. Black rosewood side panels $1,700
CD-94G. As above with rose-gold finish and rosewood side-panels $1,800

CD-75DX Compact Disc Player
Features dual 16-bit converters; quadruple oversampling; digital data output for outboard D/A converter; bi-directional track skip; cue and review; random track programming and repeat. Satin black finish $450
CD-65DX Compact Disc Player. Similar to above $400

CD-50 Compact Disc Player
Drawer-loading CD player with wireless remote control. Features 3-beam laser; programming of 16 tracks in any order; skip forward; skip back; fast forward; fast reverse; repeat track and disc; digital filtering; dual D/A converters. Cues by track number. Oversamples at 88.2 kHz. Displays current track number, elapsed time of current track, remaining time on disc. 16.5" w x 3" h x 10.88" d; 7.7 lb $350

CD-40 Compact Disc Player
Features 16 track programming; 16-bit double oversampling; forward/reverse search/skip; repeat play; track/index display. THD 0.07%; S/N 90 dB; 3" h x 16.5" w x 10.88" d; 7.7 lb .. $300

McINTOSH

MCD 7005 Compact Disc Player
Features wireless remote control with volume control; direct-access track, index, and time selection; volume control through McIntosh Precision Ladder Attenuator; same error correction system as MCD 7000 with additional 8-bit error correction; full 16-bit D/A converters with 4-times oversampling. 32 lb $1,599

MCD 7000 Compact Disc Player
CD player with linear-torque, vibration-free, controllable-speed motor with digital PLL motor control to keep speed at correct value and permanently keep correct phase relationship. Motor is mounted to a precision platform. Features double digital filtering; remote control; music scan; skip forward and back; repeat track; 3-speed music search with search protection; pause; programming of up to 20 tracks in any order; cancel; headphone jack with adjustable level; damaged disc/mute error-correction indicator; positive-lock synchronization. Displays number of current track, elapsed playing time of track. FR 2-20,000 Hz ± 0.3 dB; S/N 96 dB; dynamic range 96 dB. 16-bit equivalent through oversampling with digital filter and 14-bit D/A conversion. 22 lb $1,399

MELOS AUDIO

CD-T Vacuum Tube CD Player
16 bit quadruple oversampling and digital filtering. Low microphonic tubes used for amplification and filtering. Remote control, scan, index, timer, drawer loading $995

MERIDIAN BY MADRIGAL

207 Professional 2-Part CD Player
Drawer-loading CD player with additional inputs and switching for tuner and tape; 1 chassis for transport, 1 for processing; remote volume control; can operate as a preamp; programs 99 tracks in any order; skip forward; skip back; fast forward; fast reverse; repeat track, disc, or program; full-function remote control; 1-beam laser; dual D/A converters; sound audible during fast scan. Cues by track and index number. Displays current track number, elapsed time of current track, program in memory $1,795
209. Remote master control works with 207 and other Meridian 200-series components; selects tracks; controls 8 inputs, volume, and mute; needs 9-V battery $125
Basic Remote. Operates CD player only ... $75

MICRO SEIKI BY ANALOG EXCELLENCE

C2-M2 Remote-Controlled CD Player
Remote controls direct track access, programming, display, phrase repeat, skip forward and back, search forward and back, index search; independent power supplies for each digital printed circuit board, analog PCB, servo mechanism, and FL display; quadruple oversampling; Philips laser pickup mechanism; 2 D/A converters; 3rd-order Bessel analog filter; digital and optical outputs; Brazilian rosewood cabinet; rosewood trim on remote; convertible to 18 bits with outboard processor. FR 2-20,000 Hz ± 0.1 dB. THD <0.0015%; S/N >104 dB at 1,000 Hz; dynamic range >96 dB; analog out 2 V rms; 48.4 lb $3,995

MISSION ELECTRONICS

PCM 4000 Programmable CD Player
Drawer-loading CD player with 16-bit quadruple oversampling (at 176.4 kHz); twin DAC-single chip; programs 20 tracks in any order; skip forward; skip back; fast forward; fast reverse; cancel; repeat track, disc, program; cues by track; 1-beam laser; extensive post-DAC analog filtering; dual D/A converter; displays elapsed time, remaining time, program in memory. 17" w x 3" h x 13.5" d $699
PCM 7000. Similar to above but with remote control (with volume control), optimized grounding, 4 separate regulated power supplies... $999

MITSUBISHI

DP-409R Compact Disc Player
Auto-changer with remote control 3 beam laser; repeat track and disc skip track and 30 segment programmable; 16-function remote $550
DM-5. 5-CD magazine for DP-409R $13

DP-209R Compact Disc Player
Features 3-beam laser; 36-selection programmable; skip function; repeat play; 10-function remote control; adjustable headphone level $300

DP-109 Compact Disc Player
Features 3-beam laser; 36-selection programmable; skip function; repeat play $240

NAD

5300 Monitor Series CD Player
Wireless remote control; dynamic range control; ambience circuit; quadruple oversampling; separate D/A converters; error display; 3-beam laser; skip and scan forward and back; displays track number, elapsed and remaining time; repeats disc; programming $898

5240 Remote-Controlled CD Player
Wireless remote control; dynamic range control; 3-beam laser; skip and scan forward and back; displays track number, elapsed and remaining time; repeats disc; programming of up to 16 tracks $448

5220 Programmable CD Player
3-beam laser; skip and scan forward and back; displays track number, elapsed and remaining time; repeats disc; programming of up to 16 tracks; timer compatible $348

NAKAMICHI

OMS-7AII Compact Disc Player
Drawer-loading CD player. Features 3-beam laser; digital filtering (resampling frequency 176.4 kHz); dual 16-bit, glitch-free D/A converters; programming of 24 tracks in random order; display of current track number, elapsed time of current track, remaining time on disc, program stored in memory; sound audible during fast forward and fast reverse; skip forward; skip back; fast forward; fast reverse; cancel; repeat disc, program; cue by track number, index number; 7-function remote control; headphone jack with adjustable level. Max line output 2 V; headphone output 35 mW; THD at 1,000 Hz 0.0025%; S/N >104 dB; sep >100 dB; FR 5-20,000 Hz ± 0.5 dB; 16 lb, 5 oz; 17.12" w x 3.94" h x 12.12" d $1,850
OMS-5AII. Similar to OMS-7AII without remote and programming functions $1,495

OMS-4A Compact Disc Player
Drawer-loading CD player with shunt-connected de-glitching; multi-regulated power supply; magnetic chuck; remote control. Features programming of 15 tracks in any order; skip forward; skip back; fast forward; fast reverse; cancel; headphone jack with adjustable headphone level; 3-beam laser; 16-bit digital filter; dual D/A converters. Oversamples at 88.2 kHz; Displays current track number, elapsed time on disc. Headphone output 35 mW/40 ohms. 16.94" w x 3.95" h x 12.69" d; 15 lb $995

OMS-3A Compact Disc Player
Drawer-loading CD player with shunt-connected de-glitching; multi-regulated power supply; magnetic chuck; remote control. Features programming of 15 tracks in any order; skip forward; skip back; fast forward; fast reverse; cancel; headphone jack with adjustable headphone level; 3-beam laser; 16-bit digital filter; single D/A converter. Oversamples at 88.2 kHz; Displays current track number, elapsed time on disc. Headphone output 35 mW/40 ohms. 16.94" w x 3.95" h x 12.69" d; 15 lb $850

OMS-2A Compact Disc Player
Drawer-loading CD player with shunt-connected deglitching; wireless remote control; 15-track programming; oversamples at 88.2 kHz; headphone output 35 mW/40 ohms. 16.94" w x 2.94" h x 12.69" d; 11 lb, 4 oz $529

NEC

CD-810 Remote-Controlled CD Player
Drawer-loading CD player with wireless remote

PRICES LISTED
are manufacturers' suggested retail prices
(also referred to as *list* prices);
actual selling prices are set by individual dealers.
All prices are subject to change without notice.

control. Features programming of 24 tracks in any order; 3-way repeat; disc-eject programming; skip forward; skip back; audible fast forward and reverse; index search; time search; variable intro search; timer play; auto space; direct program access via front-panel or remote keypad; headphone jack with adjustable level; phase –inverter; vibration-free design; optical D/A coupling; 3-beam laser; separate analog and digital power supplies. Fluorescent display indicates elapsed time of disc and track, remaining time of disc and track, elapsed time of program, and remaining time of program. 16.94″ wide x 3.34″ high x 12.59″ deep; 19.4 lb $629

CD-610 Remote-Controlled CD Player
Drawer-loading CD player with wireless remote control. Features programming of 24 tracks in any order; 3-way repeat; disc-eject programming; skip forward; skip back; audible fast forward and reverse; index search; timer play; variable intro scan; auto space; auto/manual editing for recording; direct program access via front-panel or remote keypad; headphone jack with adjustable level; variable output; high-linearity D/A converter; isolated optical mechanism; 3-beam laser; separate analog and digital power supplies. Fluorescent display indicates elapsed time of disc and track, remaining time of disc and track, elapsed time of program, and remaining time of program. 16.94″ w x 3.34″ h x 12.59″ d; 11.7 lb $459

CD-510 Compact Disc Player
Drawer-loading CD player with wireless remote control. Features programming of 20 tracks in any order; 3-way repeat; skip forward; skip back; audible fast forward and reverse; timer play; intro scan; auto space; direct program access via front-panel or remote keypad; headphone jack with adjustable level; 3-beam laser. Fluorescent display indicates elapsed time of disc and track. 16.94″ w x 3″ h x 10.62″ d; 9.2 lb $359

CD-410 Compact Disc Player
Drawer-loading CD player with wireless remote control. Features programming of 15 tracks in any order; 3-way repeat; skip forward; skip back; fast forward and reverse; index search; intro scan; headphone jack with adjustable level; 3-beam laser; digital filter. Fluorescent display indicates elapsed time of disc and playing time of track. 16.94″ w x 2.75″ h x 11.41″ d; 9.9 lb $299

NIKKO AUDIO

NCD-600 Compact Disc Player
Features full computer interface for total control of player from IBM-compatible computer. Menu driven software permits unlimited programmability and centronics interface plugs into any printer port $4,599

NCD-600 Compact Disc Changer
Programmable CD changer stores up to 60 discs $3,999

CD-500 Compact Disc Player
Features remote control with 10-key direct-access pad; timer play; space play; index programming; pause; fast search; all clear; headphone output with adjustable level. Optionally rack mountable $650

CD-300 Compact Disc Player
Features remote control; 3-beam laser; 18-track random programming; index programming; pause mode. Optionally rack mountable... $350

ONKYO

DX-C600 Compact Disc Changer
Remote-controlled magazine-loading 6-disc CD changer with opto-coupling system to electrically separate the digital and analog sections. Features programmed playback; random shuffle playback; 3 repeat modes; skip forward; skip back; fast forward; fast reverse; direct access to disc and track numbers; multi-function FL display. 17.12″ w x 4.5″ h x 13″ d; 13.2 lb $600
KC-600. Additional 6-disc magazines for DX-C600 ..... $19.95 ea

DX-530 Compact Disc Player
Remote-controlled CD player with opto-coupling system to electrically separate the analog and digital sections. Features programming of 20 tracks in any order; shuffle play; repeat track, disc, program, A-B phrase, and shuffle play; direct access to tracks; auto-speed music search; index search; skip forward; skip back; 2-speed fast forward and reverse; timer function; headphone jack; motorized volume control; output CMN filter; digital filtering; vibration damping; 3-beam laser; digital output terminal; printed circuit boards with specially designed insulation packet to absorb electro-magnectic flux. Display indicates track number, index number, program in memory, remaining time of track/disc/program, elapsed time of track/disc/program. 17.12″ w x 3.62″ h x 14.06″ d; 12.3 lb $600

DX-330 Compact Disc Player
Remote-controlled CD player with opto-coupling system to electrically separate the analog and digital sections. Features programming of 16 tracks in any order; 3 repeat modes; music search; skip forward; skip back; 2-speed fast forward and reverse; headphone jack with adjustable level; digital filter; vibration damping; CMN filter; 3-beam laser. Display indicates track number and time information. 17.12″ w x 3.62″ h x 14.12″ d; 10.6 lbs $480

DX-230 Compact Disc Player
Remote-controlled CD player with opto-coupling system to electrically separate the analog and digital sections. Features programming of 16 tracks in any order; 3 repeat modes; search; skip forward; skip back; 2-speed fast forward and reverse; cue and review; digital filtering; 8-digit FL display; 3-beam laser; vibration damping. 17.12″ w x 3.44″ h x 16.06 d; 106 lb $355

DX-130 Compact Disc Player
Drawer-loading CD player can be remote-controlled with selected Onkyo components. Features programming of 16 tracks in any order; 3 repeat modes; skip forward; skip back; 2-speed fast forward and reverse; cue and review; 8-digit FL display; digital filtering; 3-beam laser; vibration damping. 17.12″ w x 3.44″ h x 14.12″ d; 10.6 lb $280

PANASONIC

SL-NP10 Portable CD Player
Programs 18 tracks; skip forward and back; repeat track, disc, and program; headphone jack with adjustable level; switchable high-cut filter; 1-beam laser; digital filter. Displays current track number, elapsed time of current track or disc, remaining time on disc. Plays up to 5 hrs on battery charge; in black, burgundy, or white. Includes rechargeable battery pack, AC adaptor, connection cord, soft case $280

RX-CD100 CD/Cassette/Radio Boombox
Remote-controlled 3-piece boombox with CD player, double cassette deck, AM/FM radio. CD features: 18-track programming; skip; search; repeat; LCD display. Tape features: autoreverse play and record on Transport 1, play on 2; endless play; high-speed copying; music sensor; feather-touch controls; soft eject; Dolby NR; bias/EQ for normal or chrome/metal tape; auto stop. Other features: passive-radiator 2-way speakers; bass, treble, balance controls; jacks for AC in, line out, external speakers, headphones, auxiliary in, external mic. Needs 10 D batteries or AC power (cord included). 19 lb, 9 oz $700

RX-FD80 CD/Cassette/Radio Boombox
Portable boombox with built-in CD player, cassette recorder, AM/FM tuner, amplification, 2-way speakers. CD features: 18-track programming; skip; search; repeat; LCD display. Cassette features: autoreverse; Dolby NR; cue and review; pause; soft eject. Other features: 5-band graphic equalizer; ambience stereo; in and out jacks; mic jack; handle. Needs 10 D batteries or AC power (cord included). 11 lb, 4 oz; 6.3″ h x 23.2″ w x 6.8″ d $400

SL-P3700 Remote-Controlled CD Player
Programs 20 tracks; preset editing to compute total time of program; number keypad on remote and front panel; repeats track, disc, program; volume control on remote; average access time 1 sec; display shows total tracks and playing time, elapsed or remaining time for track or disc, program; digital double-oversampling filter ... $280
SL-P3500. Similar to above except lacks remote control. $230

PHILCO

CD2471 Programmable CD Player
Programs 20 tracks in any order; 3-speed search (music audible at 2 slower speeds); quadruple oversampling digital filter; dual 16-bit D/A converter; skip forward and back; time or track display $280

PIONEER

CLD-1010 LD/CD/CDV Player
LD/CD/CDV player can play 4 different types of discs: 8″ and 12″ laserdiscs compact discs, and compact disc videos. Features Pioneer "SR" unified remote; 10-track/-chapter programmable CD and LD playback; program edit; full-automatic front-loading system; repeat side, track, memory, program, or segment; LaserVision time search accurate to 1 second; forward and reverse chapter skip and track search; on-screen function displays; 400-line video resolution; 88.2 kHz oversampling. 16.56″ w x 16.19″ d x 4.75″ h .. $800

PD-9010X(BK) Compact Disc Player
Drawer-loading remote-controlled CD player with 3-beam laser and digital filtering with 176.4-kHz oversampling. Features programming of 32 tracks in any order; cancel; repeat track, disc, and program; skip forward; skip back; audible fast forward and reverse; headphone jack with adjustable level. Displays track number, elapsed time of track, remaining time on disc and program in memory. Cues by track or index number. 18″ w x 3.75″ h x 12.19″ d $600

PD-7050 Compact Disc Player
Remote-controlled CD player with 4 independent power supplies (analog, digital, servo and display). Features 24-track random programming with "music window" for programmed fade-in/fade-out and time fade; repeat track, disc, or program; skip forward; skip back; index search; 2-speed fast forward and reverse; quadruple oversampling digital filter; 2 glitch-free D/A converters; accu-focus laser; digital level control; digital fader; anti-resonance design with honeycomb chassis and large insulators; disc stabilizer with magnetic clamper; direct digital output; headphone jack with level control. Displays elapsed, total, and remaining time $425

PD-6050 Compact Disc Player
Remote-controlled CD player can program up to 24 tracks in any order. Features remote and

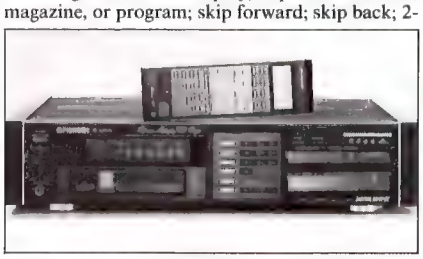
front-panel direct-access keypads; repeat track, disc, or program; skip forward; skip back; 2-speed fast forward and reverse; digital filter; anti-resonance design with honycomb chassis and floating laser pickup assembly; accu-focus laser; disc stabilizer with magnetic clamp; headphone jack with adjustable level $330

PD-X707(BK) Compact Disc Player
Features programming of up to 27 tracks in any order; repeat track, disc, or program; skip forward and back; 2-speed audible fast forward and reverse; subcode output; disc stabilizer; linear servo system. 3.38" h x 14.19" w x 12.44" d . $325

PD-4050 Compact Disc Player
Remote-controlled CD player can program up to 16 tracks in any order. Features repeat track, disc, or program; skip forward; skip back; 2-speed fast forward and reverse; digital filter; anti-resonance designed with honeycomb chassis and floating laser pickup assembly; disc stabilizer with magnetic clamper; headphone jack with adjustable level. Displays track number $200

Multiplay CD Changers

PD-M90X Compact Disc Changer
CD player with 6-disc magazine and single-play tray. Features remote programming of 80 tracks into 8 separate memories for instant recall by remote control; LCD function display on remote; programming of 32 tracks in any order from a 6-disc magazine; random play; repeat track, disc, magazine, or program; skip forward; skip back; 2-



speed audible fast forward and reverse; front-panel and remote direct-access disc and track number pads; direct digital output; digital level control; digital filter; gold-plated output jacks; anti-resonance honeycomb chassis; large insulators; linear servo control system; side panels finished in genuine rosewood $800

PD-M70 Compact Disc Changer
CD player with 6-disc magazine and single-play tray. Features remote programming of 80 tracks into 8 separate memories for instant recall by remote control; LCD function display on remote; programming of 32 tracks in any order from a 6-disc magazine; random play; repeat track, disc, magazine, or program; skip forward; skip back; 2-speed audible fast forward and reverse; front-panel and remote direct-access disc and track number pads; digital level control direct connection to power amp; gold-plated output jacks; linear servo system; digital filtering; anti-resonant construction; honeycomb chassis; large insulators. Displays elapsed, total, and programmed time $600

PD-M60 Compact Disc Changer
CD player with 6-disc magazine and single-play tray. Features wireless remote control; programmimg of 32 tracks in any order; random play; repeat track, disc, magazine, or program; skip forward; skip back; 2-speed audible fast forward and reverse; front-panel and remote direct-access key pads; linear servo system; honeycomb chassis; anti-resonant construction; digital filter. Displays elapsed, total, and programmed time $500

PD-M50 Compact Disc Changer
Remote-controlled CD player with 6-disc magazine and single-play tray. Features programming of 32 tracks in any order; repeat track, disc, magazine, or program; random play; skip forward; skip back; 2-speed audible fast forward and reverse; front-panel and remote direct-access keypads; digital filter; anti-resonance design with honeycomb chassis; linear servo system; headphone jack with adjustable level. Displays elapsed, total, and remaining time. 3.12" h x 16.56" w x 12.38" d $425

PD-M40 Compact Disc Changer
Remote-controlled CD player with 6-disc magazine and single-play tray. Features programming of up to 32 tracks in any order; repeat track, disc, magazine, or program; random play; skip forward; skip back; 2-speed audible fast forward and reverse; digital filter; anti-resonance design with honeycomb chassis; linear servo system. Displays elapsed, total, and remaining time. 3.12" h x 16.56" w x 12.38" d $375

JD-M100 6-Disc Magazine
Additional 6-disc magazine for use with any Pioneer CD changer. Includes a complete set of labels and hard plastic storage sleeve. Available in 5-piece master carton .....$15 ea

PROTON

830R Compact Disc Player
Programmable CD player with remote control. Features 1-beam laser; digital filtering; quadruple (176.4 Hz) oversampling; random programming of 20 tracks; headphone jack with variable level; dual error-correction circuit; skip forward/back; 3-speed search, fine-step adjustment accurate to 1 sec, 2 lower speeds for precise cueing; displays total tracks, time remaining, current track and index, mins and secs elapsed; repeats track, entire disc or program $349

QUASAR

CD8966 Portable Compact Disc Player
Features 5-hr operation with rechargeable battery pack; multi-function LCD readout; 18-step random-access programming; hi-cut filter for headphone listening; high-resolution digital filter; 4-step battery check indication $300

CD8956 Compact Disc Player
Drawer-loading CD player with direct access. Features high-speed linear-motor access system; skip forward; skip back; fast forward; fast reverse; cancel; programming of 20 tracks in any order; repeat track, phrase, disc, and program; one-beam laser; single D/A converter; 96th-order FIR double- oversampling filter; audible fast scan. Cues by track and index number. Displays current track number, elapsed time of current track, elapsed time on disc, remaining time on disc;. 16.94" w x 3.03" h x 0.19" d $250

CD8936 Portable Compact Disc Player
Top-loading portable CD player with direct access and switchable high-cut filter for HP output. Features skip forward; skip back; fast forward; fast reverse; headphone jack; repeat disc and track; one-beam laser; single D/A converter; audible fast scans. Cues by track number. Displays current track number, elapsed time of current track, remaining time on disc. Headphone output 15 mW. 4.97" x 1.25" x 4.97"; 13.8 oz $240

CD8946 Compact Disc Player
Programmable CD player features high-resolution digital filter; high-speed linear motor, 20-step random-access programming; multi-function FL display; preset editing; stop/search forward and reverse; 2-speed search with cueing sound. S/N 96 dB; THD 0.004%; FR 4 Hz-20,000 Hz ± 0.3 dB. 16.94" h x 3.03" w x 9.44" d $230

RCA

MCD245 Dimensia Compact Disc Player
Compact disc player with Dimensia remote-control operation and on-screen status indication when used with Dimensia monitor. Features 15-track random programming; forward/reverse search for track, index, or scan; repeat; auto switching; system record protection logic; SystemLink cabling; powered disc loading drawer; directory display panel; independent suspension system; manual function controls; 3-beam laser pick-up. FR 5-20,000 Hz ± 1.0 dB; S/N >95 dB; THD 0.005% (at 1,000 Hz); sep 90 dB (at 1,000 Hz); sampling FR 44.1 kHz. 14.63" w x 3" h x 10.63" d $299

REALISTIC

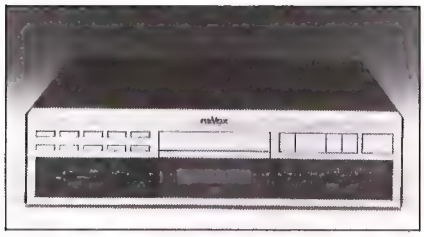
CD-3100 Portable CD Player
Mini jack for use with headphones and cable for home stereo system; soft-touch controls beep when pressed; auto search; 2-speed scan forward and back; programs 16 tracks; 6-digit LCD readout; snap-on battery back needs 4 AA batteries. 6.5" x 5.5" x 1.3" with battery pack; 4.9" x 4.9" x 1.06" without $280

CD-1500 Remote-Controlled CD Player
Skips forward and back; 2-speed search forward and reverse; programs 24 tracks; index search; repeat tracks; switchable; floating disc tray; auto space; 3-spot laser; wireless remote needs 2 AA batteries $260

CD-2300 Programmable CD Player
Programs 15 tracks; 3-spot laser; floating disc tray; 4-digit fluorescent display; repeats track, program, disc; scan forward and reverse .. $220

REVOX

B226 16-Bit CD Player
Drawer-loading CD player with Revox system-remote compatibility. Features 16-bit, quadruple oversampling; dual D/A converters; fixed and variable outputs; 2 digital outputs; 19-step programming by track, times, or special functions; direct track/index access from 1-99; audible for-



ward/reverse search; locate function; headphone jack with adjustable level. LCD panel indicates track number, elapsed/remaining time, track remaining time, program, and pause countdown. FR 20-20,000 Hz ± 0.1 dB; S/N >100 dB; ch sep >90 dB. 17.7" w x 4.3" h x 13" d; 18.7 lb $1,295

ROTEL

RCD820BX Compact Disc Player
20 programmable selections; repeat functions for disc, track, and entire program; 16-bit quadruple-oversampling decoding system; FR 20-20,000 ± 0.08dB; THD 0.0025%; S/N 100dB. Regulated power supplies; 7 lb $799

RCD850 Compact Disc Player
Drawer-loading CD player with programming of 9 tracks in random or sequential order. Features skip forward; skip back; fast forward; fast reverse; cancel; repeat track; repeat disc; 3-beam laser; high-slope digital filtering; 3rd-order analog filtering; single D/A convertor. Oversamples at 44.1

kHz. Cues by track number. Displays current track number, elapsed time of current track. 17" w x 3.81" h x 11.44" d; 9 lb $379

SANSUI

CD-X901 Vintage Series CD Player
Vintage series CD player with music scan for playing back first 10 seconds of every track. Random access programming for up to 20 tracks. calendar-style track programming chart. AMPS (automatic music program search). All/single track repeat; A/B repeat; index search; 4-second auto spacing; elapsed/total time indicators; timer switch; remote control. S/N 110 dB; FR 5-20,000. 17.63" w x 3.88" h x 15.94" d; 23.1 lb ... $1,300

CD-X701 Programmable CD Player
Features 3-beam laser; oversampling digital filter. 28-key remote control; AMPS; repeat 1 track, point A to point B, and all tracks; random programming for up to 20 tracks; headphone output w/volume control. S/N 105 dB; FR 5-20,000. 17.56" w 3.75" h x 16.13" d; 20.3 lb $725

CD-V550R Auto-Space CD Player
Drawer-loading CD player with auto spacing to add 4-second blanks between dubbing sections. Features programming of 16 tracks in any order; fast forward; fast reverse; repeat track, disc, program; 4-function remote control; headphone jack with adjustable level; combination digital/analog filtering; 3-beam laser; sound audible during fast scan. Cues by track number, index number, time. Displays current track number, elapsed time of current track, elapsed time on disc, remaining time on disc, program in memory. 8.8 lb; 16.94" w x 3.22" h x 12.36" d $370

SANYO

CPM1000 10-Disc CD Changer
10-disc CD-changer with remote control. Features 10-disc magazine; single disc magazine; 24-button remote control; 32-track programmability; random play; intro-scan; 3-beam tracking mechanism; skip & search mechanism; multi-function FL display; internally-damped suspension system; mic mixing; 3-way repeat operation; 3-beam tracking system; adjustable output level from remote and front panel; timer play. 16.75" w x 4.5" h x 12" d; 11 lb, 14 oz $480

MCD40 CD Boombox
Portable CD player, AM/FM tuner, cassette deck. Features programming of 16 tracks in any order; auto reverse; synchro dubbing; Dolby NR; soft-touch controls; graphic EQ; line-in and -out jacks; auto stop; 2-way speakers; 3-way power source; LED indicators; LCD $335

CP12 Portable CD Player
Ultra-thin portable CD player with new drive

mechanism and LSI for compactness. Features 16-track programming; 3-beam laser; vibration-resistant design; 86-dB dynamic range; selection skip; selection search; repeat track or disc; phone mute switch; rechargeable battery for 4.5 hours of play. 4.94" w x .75" h x 5" d; 13 oz $280

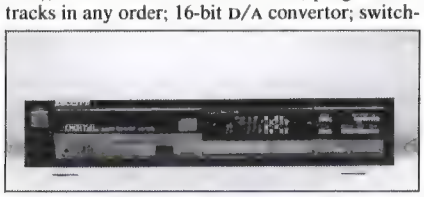
CP850 Remote-Controlled CD Player
CD player with infrared wireless remote control. Features 16-track programming; multi-function LCD display; 3-beam laser; isolated suspension system; skip forward/reverse; forward/reverse search; repeat disc. 16.75" w x 3.5" h x 10.75" d; 7 lb, 8 oz $200
CP840. Same as CP850 but does not have remote control $180

CP710 Programmable CD Player
Features 16-selection memory; 3-beam laser; skip forward; skip back; repeat disc, track; 2-speed fast forward and reverse; 8-digit fluorescent display; wireless remote control $200
CP700. Same as CP 710 (above) but does not include wireless remote control $180

CP10 Portable CD Player
Features multi-function LCD display; AC/DC operation; 16-selection programmability; skip forward and back; search forward and back; headphone jack; repeat disc. Battery pack optional $240

SCOTT

DA990 Remote-Controlled CD Player
3-beam laser; digital filtering (oversamples at 88.2 kHz); full-function wireless remote; programs 20 tracks in any order; 16-bit D/A convertor; switch-



able analog filter; headphone jack with volume control; big chrome-plated feet; auto space to add extra time between tracks $450

DA963 Remote-Controlled CD Player
Programs 15 tracks in any order; skip forward; skip back; fast forward; fast reverse; repeat track, disc, program; 8-function remote control; 3-beam laser; digital and analog filtering; single D/A converter; sound audible during fast scan. Cues by track number. Displays current track number, elapsed time of current track, elapsed time on disc, remaining time on disc, program in memory. 11.1 lb; measures 17.25" wide x 3.75" high x 11" deep $300
DA952. Same as above without remote control $200

SEARS ROEBUCK

97551 Programmable CD Player
Drawer-loading CD player with direct, index, and skip search. Features 3-beam laser; programming of 16 tracks in any order; skip forward; skip back; fast forward; fast reverse; repeat track, disc, and program; 9-key remote control. Displays current track number, elapsed time of current track, elapsed time on disc. 420 mm w x 85 h x 270 d; 11 lb $250

97521 Programmable CD Player
Drawer-loading CD player with direct, index, and skip search. Features 3-beam laser; programming of 16 tracks in any order; skip forward; skip back; fast forward; fast reverse; repeat track, disc, and program. Displays current track number, elapsed time of current track, elapsed time on disc, program in memory. 420 mm w x 85 h x 270 d; 11 lb $180

SHARP

SA-CD800 CD/Receiver
Compact disc multiplay AM/FM stereo receiver. Features 6-disc (5+1) changer mechanism; 3-beam laser; random play with microcomputer; 32-program automatic programmable music selector; continuous playback; repeat-playback function; automatic program search system; FL multi display; 7-band graphic EQ with spectrum analyzer; audio and video function selectors; inputs for video 1, video 2, CD, phono, tape, and tuner; sound muting speaker selector (A/B/A+B); 12 AM/12 FM presets. CD section: FR 5-20 kHz S/N 93 dB; THD 0.005%. Amp section: 110 W/ch rms into 8 ohms with 0.0% THD. 17" w x 6" h x 15.69" d; 28 lb $900

DX-C6000 6-Disc CD Changer
Multiplay 6-disc (5+1) compact disc player with remote control. Features 2-speed cue and review; automatic program search; programmable play; random play; repeat and continuous play. 17" h x 4.44" w x 12.56" d; 14.3 lb $500

WQ-CD30 Portable CD Player
Portable AM/FM stereo double cassette recorder with CD. Features 20-selection auto programmable music selector; auto program locate device (APLD) for CD; high-speed tape dubbing; continuous playback from tape 1 to tape 2; 3-band graphic EQ; auto program search system (APSS) for tape 2; 2-way 4-speaker system with 4" free-edge woofers and tweeters; CD output jacks. Uses 10 D batteries. 23.25" w x 5.63" h x 7.63" d; 12.2 lb. (without batteries) $400

DX-R750 Remote-Controlled CD Player
Compact disc player with infrared remote control; APMS; APLD; APSS; cue/review; playback time display in seconds and minutes. 17" w x 3.13" h x 11.75" d; 9.7 lb $280

DX-650 Programmable CD Player
Compact disc player with 3-beam laser; 20-selection random-access programming; APSS; cue/review; repeat; front-loading disc table $200

SHERWOOD

CDP-300R Remote-Controlled CD Player
Drawer-loading CD player remote compatible with Sherwood remote-controlled receivers. Features programming of 20 tracks in any order; skip forward; skip back; fast forward; fast reverse; one-beam laser; quadruple oversampling digital filtering; 1st-order linear-phase analog filtering; sound audible during fast scan. Displays current track number, elapsed time of current track, elapsed time on disc. 17.36" w x 3.25" h x 9.75" d; 11 lb $300

CDP-250R Oversampling CD Player
Features Sherwood Digi-Link remote compatibility; 3-beam laser pick-up; double oversampling

digital filter; 16-selection random programming; motorized front loading disc tray; 3-mode repeat; random-play select; auto space; auto timer play; LCD multi-function display $260

SHURE

D6000 Remote-Controlled CD Player
Drawer-loading CD player with remote control

including remote volume. Programs 15 tracks in any order. Features skip forward; skip back; fast forward; fast reverse; cancel; repeat track; repeat disc; repeat phrase; repeat program; cue by track; cue by time; 19-function remote; headphone jack; adjustable headphone; 3-beam laser; oversamples at 88.2 kHz; independent L/R digital filters 80 dB attenuation; five-pole active above 30,000 Hz analog filtering; dual D/A converter; display of current track number; display of elapsed time of current track; display of program in memory; sound audible during fast scan. Headphone output 5 V; 11 lb; 16.9" w x 2.9" h x 12.9" d. $599

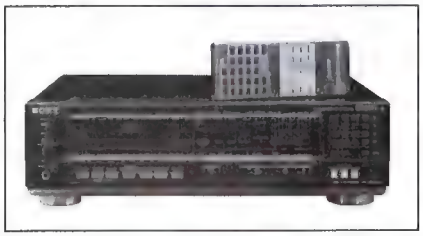
SV40 Remote-Controlled CD Player
Drawer-loading CD player with volume control included on 17-function remote. Programs 15 tracks in any order. Features skip forward; skip back; fast forward; fast reverse; cancel; repeat track; repeat disc; repeat program; cue by track; headphone jack; adjustable headphone; three-beam; oversamples at 44.1 kHz; dual-break-point analog filtering; single D/A converter; display of current track number; display of elapsed time of current track; display of program in memory; sound audible during fast scan. Headphone output 5 V; 9 lb, 11 oz; 16.9" w x 2.9" h x 10.6" d $399

SONOGRAPHE BY CONRAD-JOHNSON

SD-1 Programmable CD Player
Drawer-loading CD player with discrete FET audio circuits and power supplies designed by Conrad-Johnson. Features programming of 20 tracks in any order; skip forward; skip back; fast forward; fast reverse; repeat disc, program; headphone jack; digital filtering; dual D/A converters; sound audible during fast scan. Cues by track and index number. Oversamples at 176.4 kHz. Displays current track number, program in memory; elapsed time of current track. 18" w x 3.75" h x 12" d; 8.5 lb $695

SONY

CDP-705ESD Remote-Controlled CD Player
Remote-controlled CD player with 20-key direct-access pad on both the remote and front-panel controls. Features programming of 20 tracks in any order; AMS auto music sensor; shuffle play; repeat track, disc, program, shuffle play, or user-selected phrase; track and index search; fast forward and reverse; G-chassis construction for vi-



bration absorption; optical transfer system for digital/analog isolation; unilinear dual 16-bit D/A converters; digital filter with quadruple (176.4) oversampling; converter deglitcher circuit; error prediction logic; linear motor-tracking mechanism; separate large-capacity transformers for digital and analog sections; direct digital output. Music calendar $1,500

CDP-605ESD Remote-Controlled CD Player
Remote-controlled CD player with 20-key direct-access pad on both the remote and front-panel controls. Features programming of 20 tracks in any order; AMS auto music sensor; shuffle play; repeat track, disc, program, shuffle play, or user-selected phrase; track and index search; fast forward and reverse; dual-chassis construction; unilinear dual 16-bit D/A converters; digital filter with quadruple (176.4) oversampling; converter deglitcher circuit; error prediction logic; linear motor-tracking mechanism; multiple power supply; direct digital output $1,000

CDP-505ESD Remote-Controlled CD Player
Remote-controlled CD player with 20-key direct-access pad on both the remote and front-panel controls. Features programming of 20 tracks in any order; AMS auto music sensor; shuffle play; repeat track, disc, program, shuffle play, or user-selected phrase; track and index search; fast forward and reverse; monocoque-chassis construction; unilinear dual 16-bit D/A converters; digital filter with quadruple (176.4) oversampling; converter deglitcher circuit; error prediction logic; linear motor-tracking mechanism; multiple power supply; direct digital output $600

CDP-C10 10-Disc CD Changer
Drawer-loading remote-controlled CD player with 10-disc magazine. Features progamming of 20 tracks in any order, 99 in sequential order; skip forward and back; audible fast forward and reverse; cancel; repeat track, disc, phrase, and program; single D/A converter; headphone jack with adjustable level; 3-beam laser. Cues by track and index number $800

D-2001 CD System with Amp and Speakers
Remote-controlled front-loading CD player with built-in 25-W/ch amplifier and full-range speakers. Features AMS auto music sensor; programming of 16 tracks in any order; 3 repeat modes; shuffle play; skip forward; skip back; audible fast forward and reverse; line input; CD output; headphone jack $600

CDP-910 Remote-Controlled CD Player
Remote-controlled CD player with 20-key direct-access pad on both the remote front-panel controls. Features programming of 20 tracks in any orders; shuffle play; repeat track, disc, program, shuffle play, or user-selected phrase; index and track search; fast forward and reverse; auto space; timer play; 20-selection music calendar; headphone jack with adjustable level; gold-plated line outputs; unilinear D/A converter $500

CDP-C5F Magazineless CD Changer
Drawer-loading remote-controlled CD player with motorized carousel that holds up to 5 discs at a time. Features programming of 32 tracks in any order; shuffle play; repeat play modes; AMS auto music sensor; skip forward and back; fast forward and reverse; multi-function FL display; headphone jack with adjustable level; unilinear D/A converter; oversampling digital filter; separate digital and analog power supplies; envelope differential detection $450

CDP-710 Remote-Controlled CD Player
Remote-controlled CD player with a 20-key direct-access pad on both the remote and front-panel controls. Features programming of 20 tracks in any order; shuffle play; repeat track, disc, program, or shuffle play; index and track search; fast forward and reverse; auto space; timer play; 20-selection music calendar; headphone jack with adjustable level; error prediction logic $420

CDP-510 Remote-Controlled CD Player
Remote-controlled CD player with 20-key direct-access pad on both the remote and front-panel controls. Features programming of 20 tracks in any order; shuffle play; repeat track, disc, program, or shuffle play; index and track search; fast forward and reverse; auto space; timer play; 20-selection music calendar; headphone jack with adjustable level; unilinear D/A converter; digital filtering with double (88.2 kHz) oversampling. 17" x 4" x 13.25" $370

CDP-310 Remote-Controlled CD Player
Features remote control; programming of 16 tracks in any order; shuffle play; repeat track, disc, program, or shuffle play; track search; fast forward and reverse; auto space; timer play; headphone jack; unilinear D/A converter; digital filtering with double (88.2 kHz) oversampling; envelope error detection system. The LCD indicates elapsed time of track, remaining time of disc and program, track number, index number, program next track number, and program accumulation time. 17" x 4" x 13.25" $300
CDP-31. Similar to CDP-310 ..... $320

CDP-110 Programmable CD Player
Features programming of 16 tracks in any order; shuffle play; repeat track, disc, program, or shuffle play; track search; fast forward and reverse; auto space; timer play; headphone jack; unilinear D/A converter; digital filter with double (88.2 kHz) oversampling; envelope error detection system. LCD indicates elapsed time of track, remaining time of disc and program, track number, index number, program next track number, and program. 17" x 4" x 13.25" $260
CDP-21. Similar to CDP-110 ..... $270

Portable Compact Disc Players

CFD-D77 Portable CD Boombox
Portable CD system with built-in AM/FM radio, autoreverse cassette deck, and speakers. Features programming of 16 tracks in any order; 3 repeat modes; shuffle play; AMS auto music sensor; skip forward; skip back; fast forward and reverse; Dolby B; 3-band graphic EQ; input jack with volume control; headphone jacks; stereo inputs and outputs $600

CFD-66 Portable CD Boombox
Portable CD system with built-in AM/FM radio, autoreverse cassette deck; and speakers. Features programming of 16 tracks in any order; shuffle play; 3 repeat modes; AMS auto music sensor; skip forward; skip back; fast forward and reverse; input jack with volume control; headphone jacks; stereo inputs and outputs $400

CFD-444 Portable CD Boombox
Portable CD system with built-in AM/FM radio, cassette deck, and speakers. Features programming of 16 tracks in any order; 3 repeat modes; shuffle play; AMS auto music sensor; skip forward; skip back; fast forward and reverse; 5-band graphic equalizer; stereo inputs and outputs $350

D-10 Portable CD Player
Lightweight CD player weighing only 14 oz and measuring 0.8" high. Features AMS auto music sensor; programming of 21 tracks in any order; 5 repeat modes; skip forward; skip back; audible fast forward and reverse; auto tracking recovery if bumped during play; power consumption 1.8 W; ultra-thin 3-spot optical pickup. Remote controllable with optional remote commander (RM-DM1K). Includes rechargeable battery, AC adaptor, connecting cords, soft case, shoulder strap $350

D-3 Portable CD Player
Features AMS auto music sensor; shuffle play; 2 repeat modes; skip forward; skip back; audible fast forward and reverse; auto tracking recovery if bumped during play; unilinear converter; digital filtering. Includes BP-3 rechargeable battery, AC-930A AC adaptor, and shoulder strap . $250
D-T3. Same as D-3 with built-in AM/FM radio. Radio features local/DX and stereo/mono switches $300

D-160 Portable CD Player
Features AMS auto music sensor; skip forward;

skip back; unilinear converter; digital filter; 3-beam laser; back-lighted LCD panel; built-in anti-shock servo. Includes CPA-1 car cassette adaptor, CPM-100P car mounting plate; patch cords, AC adaptor, and carrying strap. Remote controllable with optional RM-DM1K remote commander $250

Portable CD Accessories
RM-DM1K. Remote Commander and receiver $49.95
CPM-100P. Car mounting plate $49.95

SYLVANIA

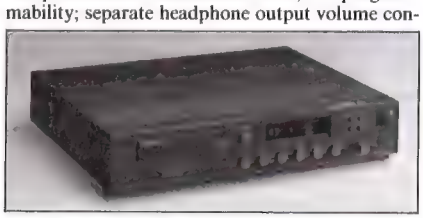
CD1473 FTS CD Player
Favorite Track Selection memorizes programs from various discs (up to 785 tracks); touch-close drawer; 24-function remote control with 10-digit keypad and volume control $379

CD1471 Programmable CD Player
Programs 20 tracks in any order; 3-speed search (music audible at 2 slower speeds); quadruple oversampling digital filter; dual 16-bit D/A converters; skip forward and back; time or track display $280

CD1465 FTS CD Player
With Favorite Track Selection to memorize programs from various discs (up to 785 tracks); dual 16-bit D/A converters $279

TANDBERG

TCP 3015A Compact Disc Player
Features 16-bit quadruple oversampling; zero negative feedback; No capacitors between the two D/A converters and the line output; digital filter and phase-linear Bessel audio filter; full programmability; separate headphone output volume con-



trol. Rosewood side panels and remote control optional. 17.13″ w x 13.5″ h x 13.75″ d; 12.5 lb $1,895

TEAC

ZD-3000 Remote-Controlled CD Player
Drawer-loading CD player with zero-distortion circuit; gold-plated fixed and variable outputs; timer play; subcode output; in-operation program editing; all-metal chassis; floating isolation system; RC-301 20-function remote control. Programs 20 tracks in any order; skip forward; skip back; fast forward; fast reverse; cancel; repeat track, disc, phrase, program; headphone jack with adjustable level; 3-beam laser; oversampling digital filter; 7th-order analog filter; dual D/A converters; sound audible during fast scan. Cues by track. Oversamples at 88.2 kHz to accomplish digital filtering of frequencies below 88,200 Hz. Displays current track number, elapsed time of current track, elapsed time on disc, remaining time on disc, program in memory. 17.5″ w x 3.44″ h x 13.44″ d; 17.6 lb $950

ZD-1000 Remote-Controlled CD Player
Number keypad on front panel and remote; headphone jack with level control; subcode output; sound audible in fast forward and reverse; Zero Distortion circuit; oversampling digital filter (at 88.2 kHz); 7th-order analog filter; 2 D/A converters; timer compatible; repeats disc, program, track, phrase; vibration-damping high-density base; 3-beam laser; linear pickup motor; displays elapsed or remaining time of current track, remaining time on disc; programs 16 tracks in any order; extra-heavy isolating feet; auto space. FR 0-20,000 Hz ± 0.3 dB; S/N >96 dB (at 1,000 Hz); dynamic range >95 dB (at 1,000 Hz); harmonic distortion 0.0025% (at 1,000 Hz); W&F unmeasureable; sep 95 dB (at 1,000 Hz); output 2 V rms; 17.5″ w x 3.8″ h x 11.7″ d; 13.3 lb .. $749

ZD-880 Remote-Controlled CD Player
ZD digital circuit; 3-beam laser; linear pickup motor; double oversampling (88.2 kHz) digital filter; 2 D/A converters; 75-ohm coaxial digital output; optical coupling; programs 20 tracks in random order; delete function; number keypad on unit and remote; skip; scan; index search; repeats disc, program, track, phrase; damping feet; auto space; timer standby; headphone jack with level control; optional wooden side panels. FR 0-20,000 Hz >0.5 dB; S/N >95 dB (at 1,000 Hz); dynamic range >95 dB (at 1,000 Hz); harmonic distortion 0.003% (at 1,000 Hz); W&F unmeasureable; sep >90 dB (at 1,000 Hz); output 2 V rms; 17.1″ w x 3.8″ h x 11.7″ d; 17.4 lb $659

AD-4 CD Player and Cassette Deck
Wireless remote control; random program dubbing of 16 tracks; auto space; Dolby B and Dolby C NR; 1 erase, 1 record/play head; autoreverse; synchro start auto dubbing; CD repeat. CD player section: S/N 94 dB; THD 0.02%; sep 90 dB. Cassette deck section: W&F 0.05%; FR to 16,000 Hz $599

AD-7 CD Player and Cassette Deck
Wireless remote control; random program dubbing of 15 tracks; auto space; rec mute; auto bias/EQ; Dolby B, Dolby C, dbx NR; MPX filter; erase, 1 record/play head; autoreverse; Time Edit calculates CD tracks that will fit on tape, changing order to fill tape; timer compatible; synchro start auto dubbing; blank scan; headphone jack with level control; twin rec-level controls; bias adjust control; separate CD output; repeat of disc or CD program; index search; 3-beam laser. CD player section: S/N 95 dB; THD 0.004% at 1,000 Hz; sep >90 dB; W&F unmeasurable. Cassette deck section: W&F 0.05%; FR 30-19,000 Hz ± 3 dB with metal tape. 16 lb $569

PD-600M 6-Disc CD Changer
Programs 32 tracks in random order; digital and analog filtering; infrared remote control; shuffle play; auto space; 3-beam laser. FR 5-20,000 Hz; dynamic range >92 dB; S/N >98 dB; W&F unmeasureable; nominal harmonic distortion 0.02%; sep >90 dB $499

PD-450 Remote-Controlled CD Player
3-beam laser; digital filter; program 20 tracks in random order from unit or remote; number keypad on remote; repeats track, program, disc; skip; scan; displays remaining time of track or disc. FR 2-20,000 Hz ± 1; dynamic range >93 dB; S/N >95 dB; W&F unmeasureable; nominal harmonic distortion 0.02%; sep >80 dB; 17.1″ w x 3.9″ h x 11″ d; 7.3 lb $349

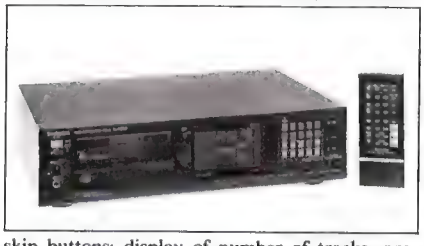
TECHNICS

SL-P1200 Disco/Audiophile CD Player
Top-loading CD player for discos or production cues to any point within track. Rocker control for momentary advance or retard. Features quartz-locked pitch control (± 8%); 2-speed cueing; rear-panel remote jack for mixer; infrared remote control; auto cue to first note of desired track; FL display; twin high-speed D/A converter; double oversampling (88.2 kHz) digital filter; 9th-order low-pass analog filter; 1-beam laser; high-speed Linear Motor Access locates track start in <1 sec; subcode output; skip forward; skip back; fast forward; fast reverse; sound audible during fast scan; repeat track, disc, program; programming of 20 tracks in any order; headphone jack with adjustable level. Cues by track number, index number, time. Displays current track number, elapsed time of current track, elapsed time on disc, remaining time on disc, remaining time in track, program in memory. 17″ w x 7″ h x 15″ d; 22 lb $1,295

SL-P1000 Remote-Controlled CD Player
Features wireless remote with volume control; 20-track programming; A-B repeat; program repeat; heaphone jack with level control; electrical and optical outputs; 10-key number pad on unit and remote; 2-speed search dial; programmable music scan; 8-digit display of track number, index number, time for current track, disc, or program; separate digital and analog circuits; gold-plated output jacks; 96th-order double oversampling (88.2 kHz) digital filter; 7th-order analog filter; high-speed laser transport; high-rigidity 3-layer base; 2 D/A converters; Class AA isolates voltage amp from sample-and-hold circuit; dual power supplies $1,000

SL-P720 Remote-Controlled CD Player
Programmable CD player with cueing dial to cue to any point in any track. Features wireless remote control with volume adjustment; 2-speed cueing; 2-layer nonresonant base; Class AA circuitry; double oversampling digital filter; 20-step random programming; auto space; auto pause; A-B repeat; repeat; search; skip; recall; headphone jack with adjustable level; programmable music scan plays start of each track for up to 99 sec. FL display shows volume level and function. Music matrix display indicates current and programmed tracks. 8-digit readout indicates track number, index number, elapsed or remaining time of current track, disc, or program $549
SL-P520. Similar to SL-P720 except lacks 2-layer base and programmable music scan $475

SL-P600C 6-Disc CD Changer
Plays 6 discs in magazine; wireless remote; 32-track random programming; 10-key number pad on unit and remote; headphone jack with volume control; high-speed access with 2-purpose search/



skip buttons; display of number of tracks, programmed tracks, current track, elapsed time; random and repeat play; digital filter $500

SL-XP5 Portable CD Player
Top-loading portable CD player with FF1 single-beam laser. Features programming of 18 tracks in any order; skip forward; skip back; fast forward; fast reverse; cancel; repeat track, disc, program; headphone jack with adjustable level; digital filtering; single D/A converter; sound audible during fast scan. Oversamples at 88.2 kHz. Displays current track number, elapsed time of current track, elapsed time on disc, remaining time on disc, program in memory. With carrying case and power supply. 4.97″ w x 0.91″ h x 4.97″ d $325

SL-P120 Quick-Access CD Player
1-sec average access to any track; 20-track random programming; headphone jack with volume control; 2-speed audible search in forward and reverse; skip forward and back; repeat of track, disc, program; 2-color FL display of elapsed or re-

maining time for track, disc, program; preset editing; double oversampling (88.2 kHz) $249
SL-P220. Similar to above except has infrared wireless remote control with number keypad and volume control; program recall $299
SL-P320. Similar to above except adds number keypad on unit $349
SL-P420. Similar to above except adds Class AAA circuits to isolate voltage control circuits from current load fluctuations to reduce distortion in sample-and-hold circuit $400

TOSHIBA

XR-9037 Remote Control CD Player
Remote control w/volume control; digital peak search; 20-program random memory; double oversampling and digital filter $450

XR-9457 Portable/Home CD Player
2 remote controls; 1 wireless for AC operation, 1 wired for DC operation; 3 beam laser pick-up; rechargeable NiCad battery or 4 AA batteries; 16 program random memory with repeat (AC only) $450

XR-9437 Portable CD Player
Compact CD player with AM/FM stereo. 9 FM/5 AM presets; 3-beam laser pick-up; 16-program

random memory with repeat; quick-program select; uses 4 AA batteries or NiCads $430

XR-9127 Auto-Repeat CD Player
Double oversampling and digital filter; automatic repeat capability; 10-key remote with volume control $330

VECTOR RESEARCH

VCD-900 Compact Disc Player
Drawer-loading CD player with full-function remote control (10-key direct-track access, remote volume control). Features programming of 15 tracks in random and sequential order; skip forward; skip back; fast forward; fast reverse; cancel; repeat track, disc, phrase, and program; 3-beam laser; digital and analog filtering; single D/A converter; sound audible during fast scans. Cues by track number. Oversamples at 88.2 kHz. Displays current track number, elapsed time of current track, elapsed time on disc; program in memory. 17″ w x 3.5″ h x 12.5″ d; 11 lb $450

VCD-770 Compact Disc Player
Drawer-loading CD player with 12-key remote control and quadruple oversampling. Features programming of 15 tracks in random and sequential order; skip forward; skip back; fast forward; fast reverse; cancel; repeat track, disc, phrase, and program; 3-beam laser; digital filtering; single D/A converter; sound audible during fast scans. Cues by track number. Oversamples at 176.4 kHz. Displays current track number, elapsed time of current track, elapsed time on disc; remaining time on disc; program in memory. 17″ w x 3.5″ h x 8.25″ d; 11 lb $350

For explanations of abbreviations, specifications, and technical terms, consult the glossary on page 221.

YAMAHA

CDX-10000 Compact Disc Player
Limited centennial edition compact disc player with wireless remote control. Features Hi-bit quadruple oversampling digital filter; Hi-bit D/A convertor; 20-bit digital volume control; high-speed linear motor; internal photo-optical cou-

pling; output level control; digital-out terminals; heavy-duty chassis; 24-track direct access; random play; front-panel headphone jack; gold-plated connection terminals. Titanium grey with high luster walnut end panels $3,000

CDX-5000 Compact Disc Player
Drawer-loading CD player with 44-key wireless remote control. Features hand-selected parts; double floating suspension design; super-high-speed access; Hi-bit quadruple oversampling digital filter; Hi-bit D/A convertor; Hi-bit digital volume control; photo-optical coupling; dual-transformer shunt-regulated power supplies; digital-out terminals; random play; index search; front panel headphone jack; RS integrated remote system compatible. Black; 55 lb $2,200

CDX-1100U Compact Disc Player
Features Hi-bit quadruple oversampling digital filter; Hi-bit D/A convertor; Hi-bit digital volume control; photo-optical coupling; digital-out terminals; output level control; gold-plated rear-panel connection terminals; 44-key wireless remote control; floating suspension design; 24-track direct-access random programmable play; random play; index search; front-panel headphone jack; Black; 35 lb $1,099

CD-2000M Compact Disc Player
Features Yamaha LSI technology; 3-beam laser; independent L/R ch digital filters; vibration damping circuit assembly; 10-key direct-selection access; 12-selection programmable random-access playback; index search; 3-way music search; 3-way repeat play; 6-digit multi-function fluorescent display; fixed-/variable-level output terminals; output-level volume controls and display; space-insert function; 10-key remote with volume control; timer-operated playback; front-panel headphone jack; gold-plated output terminals; XLR connectors; rack-mount adapters. 17.12″ w x 3.75″ h x 11.12″ d; 11.4 lb $899

CD-2000B Compact Disc Player
Features Yamaha LSI technology; 3-beam laser; independent L/R ch digital filters; vibration damping circuit assembly; 10-key direct-selection access; 12-selection programmable random-access playback; index search; 3-way music search; 3-way repeat play; 6-digit multi-function fluorescent display; fixed-/variable-level output terminals; output-level volume controls and display; space-insert function; 10-key remote with volume control; timer-operated playback; front-panel headphone jack; subcode output terminal; gold-plated output terminals. 11.4 lb $799

CD-1000B Compact Disc Player
Features Yamaha LSI technology; 3-beam laser; double-resolution digital filter; vibration damping circuit assembly; 10-key direct-selection access; 12-selection programmable random-access playback; index search; 3-way music search; 3-way repeat play; 6-digit multi-function fluorescent display; space-insert function; 10-key remote control; timer-operated playback; front-panel headphone jack; sub-code output terminal; gold-plated output terminals. 17.12″ w x 3.75″ h x 11.12″ d; 11.2 lb $699

CDX-900U Compact Disc Player
Features Hi-bit quadruple oversampling digital filter; twin high-speed D/A convertors; dual-transformer shunt-regulated power supplies; discrete circuit configuration; 42-key wireless remote control; floating suspension design; 24-track direct-access random programming; random play; index search; front-panel headphone jack with level control; RS integrated system remote control compatibility. Black; 17 lb $649

CDX-700U Compact Disc Player
Features Hi-bit quadruple oversampling digital filter; precision 3-beam laser pickup; floating suspension design; 24-track direct-access random programming; index search; 32-key wireless remote control; random play; front-panel headphone jack with level control; RS integrated system remote control compatibility. Black; 11 lb $449

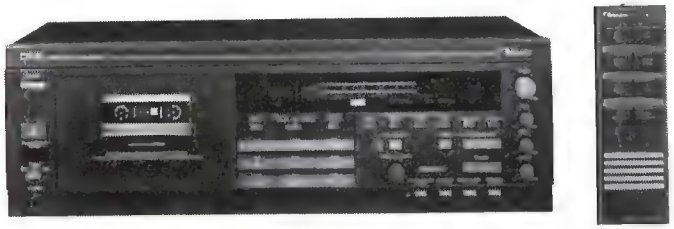
CDX-500U Compact Disc Player
Drawer-loading CD player with wireless remote control. Features 16-track random programming; 3-way music search; repeat disc, track, and programmed sequence; auto space insert; 88.2 kHz double oversampling; double resolution digital filter; 3-beam laser pickup; Yamaha LSI circuitry; floating suspension; index search; timer playback capability; headphone jack with level control; RS integrated remote compatibility. FR 5-20,000 Hz +0.5%/−1.0 dB; S/N 100 dB; THD 0.004%; dynamic range 96 dB. 17.13″ w x 4.19″ h x 13.75″ d; 9 lb, 4 oz $329

CDX-400U Compact Disc Player
Features 3-beam laser pickup; double resolution digital filter; 88.2 kHz double oversampling; vibration-damping construction; 6-digit fluorescent display panel; 16-selection random programming; 3-way music search; repeat disc, track, and programmed sequence; auto space insert; index search; timer playback capability; headphone jack with level control. FR 5-20,000 Hz +0.5%/−1.0 dB; S/N 100 dB; THD 0.004%; dynamic range 96 dB. 17.13″ x 4.19″ x 13.75″; 9.3 lb $299

CDX-305U Compact Disc Player
Drawer-loading CD player with wireless remote control with direct access. Features 16-selection random programming; 3-way music search; repeat disc, track, and programmed sequence; 6-digit fluorescent display; auto space insert; 88.2 kHz double oversampling; double resolution digital filter; 3-beam laser pickup; floating suspension design; index search; timer playback capability; headphone jack; RS integrated remote control compatibility. FR 5-20,000 Hz +0.5%/−1.0 dB; signal-to-noise ratio 100 dB; THD 0.004%; dynamic range 96 dB. 13.38″ w x 3.13″ h x 11″ d; 6 lb, 10 oz $299

CDX-5U Compact Disc Player
Features 16-selection random programming; 3-way music search; repeat disc, track, and programmed sequence; 6-digit fluorescent display; auto space insert; 88.2 kHz double oversampling; double resolution digital filter; 3-beam laser pickup; floating suspension design; index search; timer playback capability; headphone jack; RS integrated remote control compatibility. FR 5-20,000 Hz +0.5%/−1.0 dB; S/N 100 dB; 13.38″ w x 3.13″ h x 11″ d; 6 lb, 10 oz $249

CASSETTE DECKS

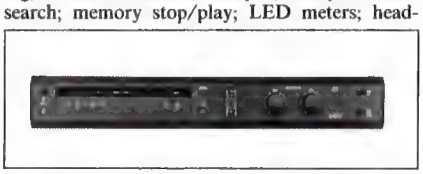


a/d/s/

C4 3-Head Dolby B/C/HX Pro Cassette Deck
Microprocessor operating system for digital recording-level and balance controls; full status displays; remote controlled through a/d/s/ R4 receiver or CC4 tuner/preamp; auto bias/EQ for all tape types; memorizes adjustable bias and level settings for each tape type; displays elapsed or remaining time; quartz-controlled-PLL capstan motor drive in die-cast metal chassis; timer record and play; auto repeat; music search; mic/line mixing; adjustable headphone output; LED rec-level meters; rec-level range 80 dB in 1-dB steps. Speed deviation <0.5%; W&F <0.04% wtd rms; FR with all tape types 20-20,000 Hz ± 2 dB; S/N >74 dBA with Dolby C and metal tape (optional outboard NR system extends S/N to >93 dBA). 17.5" w x 2.75" h x 14.8" d $1,400

RC1 Unified Remote Control
Infrared wireless remote controls CC4, R4 receiver, and other a/d/s/ components. $100

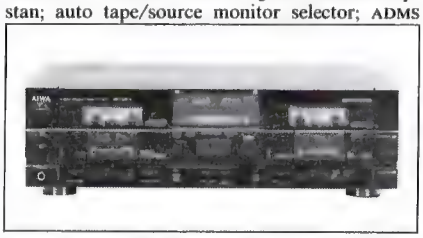
Atelier C3 2-Speed Cassette Deck
Records and plays at 1.88 ips (standard speed) and 3.75 ips (double speed). Remote controlled through a/d/s/ R4 receiver or CC4 tuner/preamp. Quartz-PLL direct-drive-capstan multiple-pole outer-rotor motor; repeat; mic/line mixing; 3 heads; 2 motors; Dolby B; Dolby C; music search; memory stop/play; LED meters; head-



phone jack. W&F standard speed 0.04% wrms, high speed 0.035%; FR (with all tape types) standard speed 20-20,000 Hz ± 2 dB, high speed 25-22,000 Hz ± 2 dB; S/N (A-wtd, all tape types) standard speed: >58 dBA no NR, >66 dBA Dolby B, >74 dBA Dolby C, high speed: >60 dBA no NR, >68 dBA Dolby B, >76 dBA Dolby C. 17.5" w x 2.75" h x 14.8" d; 19.6 lb ... $969

AIWA

AD-WX909 Autoreverse Double Cassette Deck
Features 3 heads with micro-grain-surfaced capstan; auto tape/source monitor selector; ADMS



(auto demagnetizing system); Dolby HX Pro (deck 2); Dolby B & C (both decks); gold-plated CD inputs and LINE/CD front panel selector; high-speed dubbing; feather-touch IC logic controls; independant digital tape counters; bias fine adjustment for CrO_2/normal-bias tape (± 20%); music sensor (both decks); continuous playback. W&F 0.0055% deck 1, 0.028% deck 2; S/N 80 dB with Dolby C, metal tape above 5,000 Hz; FR 10-17,000 Hz normal-bias tape, 10-19,000 Hz high-bias, 10-20,000 Hz metal. 16.94" w x 4.38" h x 11.75" d; 14.5lb $750

AD-A70 Autoreverse Cassette Deck
Cassette deck holds up to 5 cassettes for quick-reverse 15-selection random-programmed playback and sequential-timed recording. Features 4 motors; Dolby B & C; blank skip; music search; rec mute; headphone jack; LED meters; electronic tape counter; auto tape selector. W&F 0.06% wrms; FR metal 30-15,000 Hz ± 3 dB; S/N metal 78 dB Dolby C. 13" w x 4.25" h x 13.62" d; 13.2 lb $650

AD-F77OUB Dolby B & C Cassette Deck
Features 3 heads; 2 motors; auto bias/EQ; Dolby HX Pro; dual capstans; bias fine tuning; remaining-time counter; music search; output level control; memory stop/play; mike inputs; headphone jack; rec mute; digital automatic tape adaptation; IC logic controls; fluorescent meters with peak hold; auto Dolby NR detector; intro play ADMS. W&F 0.025% wrms; FR 20-17,000 Hz ± 3 dB normal-bias tape, 20-18,000 Hz ± 3 dB high bias, 20-19,000 Hz ± 3 dB metal; S/N (A-wtd) metal: 68 dB Dolby B, 80 dB Dolby C. 16.56" w x 4.38" h x 11.31" d; 12.1 lb $550

AD-WX22OU Double Cassette Deck
Features 2 heads; 2 motors; auto bias/EQ; bias fine tuning; music search; output level control; LED meters; mike inputs; headphone jack; rec mute; 0.25- time dubbing cassette deck random programmable; dubbing playback; random Dolby B & C; 1-touch synchrodubbing. W&F 0.038% wrms; FR 20-13,000 Hz ± 3 dB normal-bias tape, 20-15,000 Hz ± 3 dB high bias, 20-16,000 Hz ± 3 dB metal; S/N (A-wtd) metal: 66 dB Dolby B, 78 dB Dolby C. 16.56" w x 4.38" h x 12.75" d; 12.3 lb $550

AD-W20 Double Cassette Deck
High-speed dubbing casssete deck with quick-reverse record/playback in both decks. Features 2+2 heads; 2 motors; continuous record/playback; programmable 18-selection edit dubbing; auto bias/EQ; Dolby B; Dolby C; music search; blank skip; LED meters; headphone jack; rec mute. W&F 0.6% wrms; S/N metal 78 dB Dolby C. 16.63" w x 4.38" h x 12.75" d; 12.3 lb . $550

AD-WX808 Double Cassette Deck
Autoreverse cassette deck with Dolby HX Pro and Dolby B & C. Features Amorphous head; blank skip continuous playback; double-speed playback; IC logic control; digital tape counter; auto rec mute; rec/timer standby. W&F 0.055% wrms; S/N metal: 78 dB Dolby C, 65 dB Dolby B; FR 20-17,000 Hz normal-bias tape, 20-19,000 Hz high bias, 20-20,000 Hz metal. 16.94" w x 5" h x 12.31" d; 11 lb $350

AD-S40 Dolby B & C Cassette Deck
Features 3 heads; 2 motors; auto bias/EQ; Dolby HX Pro; dual capstans; bias fine tuning; headphone jack; rec mute; computer designed keyboard front control panel; ADMS; electronic digital tape counter; feather-touch IC logic controls; cue & review; fluorescent peak meters. W&F 0.028% wrms; FR 20-16,000 Hz ± 3 dB normal-bias tape, 20-17,000 Hz ± 3 dB high bias, 20-18,000 Hz ± 3 dB metal; S/N (A-wtd) metal: 78 dB Dolby C. 16.63" w x 4.38" h x 11.63" d; 10.4 lb $350

AD-WX707 Double Cassette Deck
Autoreverse cassette deck with Dolby B and C. Features bias fine tuning; continuous playback; feather-touch IC logic controls; high-speed dubbing; auto rec mute; auto tape selector; rec/play timer standby (deck 2). S/N 78 dB Dolby C, 65 dB Dolby B; FR 20-16,000 Hz normal-bias tape, 20-17,000 Hz high bias, 20-18,000 metal. 16.94" w x 5" h x 12.31" d; 11lb $250

AD-R30 Autoreverse Cassette Deck
Features 3-way reverse operation for continuous, one cycle, or unidirectional operation; horizontal flat keyboard operation panel; feather-touch IC logic control; Dolby B & C; bias fine tuning; auto rec mute. W&F 0.065% wrms; FR 20-16,000 Hz normal-bias tape, 20-16,000 Hz high bias, 20-17,000 Hz metal; S/N 78 dB Dolby C; rec/play DX head; erase double-gap ferrite. 16.56" w x 4.38" h x 11.94" d; 11.4 lb $180
AD-S15. As above without autoreverse ... $150
AD-S10. Same as above without soft-touch controls and no auto tape selector $120

AKAI

GX-R99-B 3-Head Autoreverse Cassette Deck
Sets and maintains optimum record level; teflon-bonded head housing of beryllium-alloyed die-cast zinc to maintain accurate azimuth; super GX (glass and crystal) head; high-tuned DC amp with Foldback Electrode Transistors (FBET) for increased midrange resolution and widened dynamic range; 5 motors; auto bias/EQ; Dolby B; Dolby C; dual capstans; bias fine tuning; direct drive; elapsed-time counter; remaining-time counter; music search; output level control; memory stop/play; rec mute; headphone jack; auto fader; FLD display; record cancel; gold RCA jacks; auto tape monitor; timer start; feather-touch full-logic controls; direct lead-in; power eject. Wireless remote control optional. W&F 0.028% WRMS; FR ferric 20-18,000 Hz ± 3 dB, high bias 20-19,000 Hz ± 3 dB, metal 20-21,000 Hz ± 3 dB; S/N (A-wtd) metal: 70 dB Dolby B, 80 dB Dolby C, 60 dB no NR. 17.3" w x 4.1" h w 14.6" d; 19.1 lbs . $649

GX-8-B 3-Head 3-NR-System Cassette Deck
Quartz-PLL direct-drive motor for low W&F; super GX (glass and crystal) head; manual bias trim; extended-range peak meter; 3 motors; Dolby B; Dolby C; dbx; dual capstans; bias fine tuning; elapsed-time counter; remaining-time counter; music search; output-level control; rec mute; headphone jack; auto mute; rec cancel; gold-plated RCA and headphone jacks; FLD display; feather-touch full-logic controls; direct lead-in; power eject. W&F 0.04% wrms; FR ferric 20-19,000 Hz ± 3 dB, high bias 20-20,000 Hz ± 3 dB, metal 20-21,000 Hz ± 3 dB; S/N (A-wtd) metal: 70 dB Dolby B, 80 dB Dolby C, 115 dB dbx, 60 dB no NR.3.9" d; 14.3 lb $609

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★ QUARTER TIME DUB

TEAC V770 $289

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★ DIGITAL CAR STEREO
★ DOLBY B + C, CD INPUTS

MARANTZ VR560 $569

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★ 71 FUNCTION REMOTE

TECHNICS SAR510 $459

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★ 100 WATTS/CH, WIRELESS

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★ PLAYS ALL THREE SIZE DISCS

SHERWOOD CRD350 $189

★ DIGITAL DIN CAR STEREO
★ DOLBY B + C, HIGH POWER

JVC HRD570 $679

★ 4 HEAD, MTS, HIFI
★ DIGITAL SPECIAL EFFECTS

TECHNICS SLP220 $189

★ WIRELESS REMOTE
★ 20 TRACK PROGRAMMING

TEAC ZD5000 $579

★ AUDIOPHILE DISC PLAYER
★ ZERO DISTORTION

CLARION 8825RT $239

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★ DOLBY, HIGH POWER

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SONY D-10 $274

★ PORTABLE DISC MAN

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★ PORTABLE DISC MAN

TEAC X-2000R $899 6-HEAD

★ AUTO REVERSE 10" REEL

HEADPHONES

KOSS JCK 200S	$97
KOSS PRO 4AAA+	$45
SENNHEISER HD430	$79
SONY MDRCD6	$85
SONY MDR31	$22

WDS CONFIDENCE CHECKLIST

1. ALL UNITS FACTORY FRESH WITH FULL WARRANTY
2. ALL ORDERS PROCESSED WITHIN 12 HOURS
3. 95% OF ALL ORDERS SHIPPED WITHIN 48 HOURS
4. WE CAN SHIP COD
5. NO EXTRA CHARGE FOR MASTERCARD OR VISA
6. BUYER PROTECTION PLAN ON EVERY PRODUCT SOLD
7. ALL SALES REPRESENTATIVES FULLY FACTORY TRAINED
8. EXTENDED WARRANTIES AVAILABLE
9. ESTABLISHED 1954
10. TOLL FREE WARRANTY SERVICE 800-448-3378
11. SOME ITEMS LIMITED QUANTITIES

CARTRIDGES

SHURE V15 V MR	$135
STANTON 681 EEES	$45
ORTOFON OM40	$139
SHURE M104	$25
STANTON 500A	$15

GX-6-B 3-Head Dolby B & C Cassette Deck
Super GX (glass and crystal) heads for increased dynamic range; extended-range peak meter for music with high dynamic range; manual bias trim; auto mute; feather-touch full-logic controls; record cancel; gold-plated RCA and headphone jacks; FLD display; direct lead-in; power eject; 3 motors; dual capstans; bias fine tuning; direct drive; elapsed- and remaining-time counter; music search; output-level control; rec mute. W&F 0.04% wrms; FR ferric 20-19,000 Hz ± 3 dB, high bias 20-20,000 Hz ± 3 dB, metal 20-21,000 Hz ± 3 dB; S/N (A-wtd) metal: 70 dB Dolby B, 80 dB Dolby C, 60 dB no NR $549

GX-R70EX-B Autoreverse Cassette Deck
Sets and monitors optimum recording levels; twin-field Super GX head with separate gaps for recording and playback; twin active power supply for stable amplification and lower IMD; auto fader; reverse selector; peak/peak spectrum meters; auto mute; direct lead-in; power eject; rec balance; 2 heads; 3 motors; auto bias/EQ; Dolby B & C; dbx; dual capstans; elapsed-time counter; music search; output-level control; rec mute; headphone jack. Wireless remote control optional. W&F 0.05% wrms; FR ferric 20-17,000 Hz ± 3 dB, high bias 20-18,000 Hz ± 3 dB, metal 20-19,000 Hz ± 3 dB; S/N (A-wtd) metal: 70 dB Dolby B, 80 dB Dolby C, 110 dB dbx; 60 dB no NR. 17.3″ w x 4.1″ h x 11″ d; 11.5 lb $549

GX-R60EX-B Autoreverse Cassette Deck
Twin-field Super GX head with separate gaps for recording and playback and twin active power supply for stable amplification and lower IMD. Features feather-touch full-logic controls; FLD display; reverse selector; direct lead-in; power eject; rec balance; 2 heads; 2 motors; Dolby B & C; dbx; dual capstans; elapsed-time counter; music search; output level control; rec mute; headphone jack. Wireless remote control optional. W&F 0.05% wrms; FR ferric 20-17,000 Hz ± 3 dB, high bias 20-18,000 Hz ± 3 dB, metal 20-19,000 Hz ± 3 dB; S/N (A-wtd) metal: 70 dB Dolby B, 80 dB Dolby C, 110 dB dbx; 60 dB no NR. 17.3″ w x 4.1″ h x 11″ d; 11 lbs $429

HX-A451W-B Double Cassette Deck
High-speed cassette deck with random programmable dubbing and playback for both transports. Master driver mechanism uses 3rd motor for tape synchronization. Features feather-touch full-logic controls; auto mute; rec pause; timer start; blank skip; 3 motors; Dolby B & C; music search; elapsed-time counter; LED meters; mic inputs; rec mute; headphone jack. Wireless remote control optional. W&F 0.09% wrms; FR ferric 30-15,000 Hz ± 3 dB, high bias 30-15,000 Hz ± 3 dB, metal 30-16,000 Hz ± 3 dB; S/N (A-wtd) metal: 67 dB Dolby B, 77 dB Dolby C, 57 dB no NR. 17.3″ w x 4.3″ h x 11.5″ d; 9.7 lb ... $380

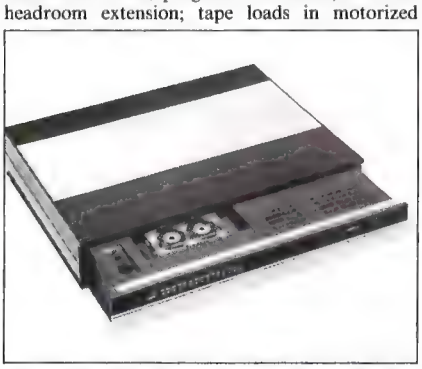
HX-A305W-B Double Cassette Deck
HX heads; normal- and high-speed dubbing; sequential play; Dolby B NR $229

AUDIO-TECHNICA

T-RMX64 4-Track Cassette Deck
4-track deck with integral 6-in, 4-out mixer. Features 3 heads; 3 motors; Dolby B & C; 6 switchable mike/line outputs; 6 mike inputs; 2-band parametric equalizer; master output-level control; soft-touch controls; phantom power; LED output display; 60-dB total attenuation; 2 send/return loops; channel return and sub solos; headphone jack. FR high bias 20-18,000 Hz ± 3 dB; S/N (all A-wtd), high bias 55 dB no NR, 64 Dolby B, 68 Dolby C. 23.3″ w x 5.4″ h x 20.4″ dD . . . $1,695

BANG & OLUFSEN

Beocord 5500 Autoreverse Cassette Deck
Automated recording; Auto Azimuth Guidance; auto Dolby B and Dolby C for play; auto and manual rec level; programs 23 tracks; HX Pro headroom extension; tape loads in motorized



drawer; black and silver; remote controlled by Master Control Panel. W&F <0.09% wrms; speed deviation <± 1.5%; S/N with chrome tape >64 dB Dolby B, >74 dB Dolby C; 16.5″ w x 3″ h x 12.75″ d; 18.7 lb $999

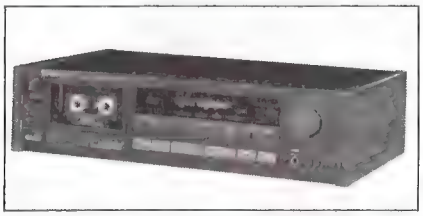
Beocord 3300 Dolby B/HX Pro Cassette Deck
Integrates with Beosystem 3300 for remote control from multiple rooms; black plexiglass and brushed aluminum; optional wall brackets; sensi-touch controls; remote controlled from Terminal 3300 remote; communicates with 3300 turntable and CD player for coordinated recording; auto search; meters adjust for tape type; sendust heads; auto demagnetization. W&F <0.07% wrms; speed deviation <± 1.5%; S/N with chrome tape >65 dB Dolby B; 16.5″ w x 2.75″ h x 9.9″ d; 8.37 lb $499

DENON

DR-M44HX 3-Head Cassette Deck
Features Dolby HX Pro; Dolby B & C NR; dual-capstan transport; full-logic control transport; computer-controlled silent mechanism; direct-drive FG servo motor; nonslip reel drive; computer-controlled bias fine-tuning; full auto-stop; SF combination head; dual power supply; MPX-filter switch; 4-digit tape counter with memory stop; FL peak level meter; real-time counter; wired remote control; rec pause/mute; 1-touch rec/standby; output level control; headphone jack. Includes wood side panels. FR 25-20,000 Hz ± 3 dB with metal tape; W&F 0.035% wrms; S/N >75 dB (Dolby C) $650

DR-M30HX 3-Head Cassette Deck
Features wireless remote control; Dolby HX Pro; Dolby B & C NR; dual-capstan transport; full-logic control transport; computer-controlled silent mechanism; non-slip reel drive; manual bias fine-tuning; full auto-stop; SF combination head; dual power supply; MPX-filter switch; 4-digit tape counter with memory stop; FL peak level meter; balance control; rec pause/mute; auto-space; 1-touch rec/standby; output level control; headphone jack. FR 25-20,000 Hz ± 3 dB with metal tape; W&F 0.045% wrms; S/N >73 dB (Dolby C) $500

DR-M20 3-Head Cassette Deck
Features Dolby B & C NR; dual-capstan transport; full-logic control transport; computer-controlled silent mechanism; non-slip reel drive; manual bias fine-tuning; full auto-stop; SF combination head; dual power supply; MPX-filter switch; 4-digit tape counter with memory stop; FL peak level meter; balance control; rec pause/



mute; auto-space; 1-touch rec/standby; output level control; headphone jack. FR 25-19,000 Hz ± 3 dB with metal tape; W&F 0.045% wrms; S/N >73 dB (Dolby C) $400

DR-M14HX Cassette Deck
Features wireless remote control; Dolby HX Pro; Dolby B & C NR; full-logic control transport; computer-controlled silent mechanism; non-slip reel drive; manual bias fine-tuning; full auto-stop; SF R/P head; constant current drive circuit; dual power supply; MPX-filter switch; 4-digit tape counter with memory stop; FL peak level meter; balance control; rec pause/mute; auto-space; music search; 1-touch rec/standby; output level control; headphone jack. FR 25-18,000 Hz ± 3 dB with metal tape; W&F 0.045% wrms; S/N >72 dB (Dolby C) $400
DR-M12HX. As above except without remote control $340

DR-M10HX Cassette Deck
Features Dolby HX Pro; Dolby B & C NR; full-logic control transport; computer-controlled silent mechanism; non-slip reel drive; manual bias fine-tuning; full auto-stop; SF R/P head; dual power supply; 4-digit tape counter with memory stop; FL peak level meter; balance control; rec pause/mute; auto-space; music search; 1-touch rec/standby; headphone jack. FR 25-18,000 Hz ± 3 dB with metal tape; W&F 0.05% wrms; S/N >72 dB (Dolby C) $280

DR-M07 Cassette Deck
Features Dolby B & C NR; full-logic control transport; manual bias fine-tuning; full auto-stop; SF R/P head; 3-digit tape counter; LED 6-segment peak level meter; balance control; 1-touch rec/standby; headphone jack. FR 40-16,000 Hz ± 3 dB with metal tape; W&F 0.057% wrms; S/N >73 dB (Dolby C) $210

Accessories
ACA-20. Side panels for DR-M30HX, M20HX, M14HX, and M12HX cassette decks $30

DUAL by ORTOFON

CC5050 Cassette Deck
Three-head stereo cassette deck with Dolby B and Dolby C noise reduction. Frequency response 20-19,000 Hz ± 3 dB with metal (Type IV) tape. Black finish $380

PRICES LISTED
are manufacturers' suggested retail prices
(also referred to as *list* prices);
actual selling prices are set by individual dealers.
All prices are subject to change without notice.

CASSETTE DECKS

FISHER

CR-W98 Double Cassette Deck
Double autoreverse cassette deck with 6-function wireless remote control. Features autoreverse for both transports; synchronized 1-touch high-speed dubbing; sequential play; Dolby B & C NR;

metal tape capability (both transports); electronic full-logic controls; FL display/level indicators. Black $400

CR-W96 Double Cassette Deck
Features autoreverse for both transports; synchronized 1-touch high-speed dubbing; sequential play; Dolby B & C NR; metal tape capability (both transports); soft-touch controls; switchable MPX filter. Black $300

CR-W95 Double Cassette Deck
Features autoreverse for both transports; synchronized 1-touch high-speed dubbing; sequential play; Dolby B & C NR; metal tape capability (both transports). Silver $300

CR-W86 Double Cassette Deck
Features autoreverse record/playback for deck 1; synchronized 1-touch high-speed dubbing; sequential play; Dolby NR; metal tape capability (both transports); soft-touch controls; switchable MPX filter. Black $250

CR-W85 Double Cassette Deck
Features autoreverse record/playback for deck 1; synchronized 1-touch high-speed dubbing; sequential play; Dolby NR; metal tape capability (both transports). Silver $250

CR-W56 Double Cassette Deck
Features synchronized 1-touch high-speed dubbing; sequential play; Dolby NR; metal tape capability (both transports). Silver $250

FOSTEX

Model 160 4-Track Cassette Deck/Mixer
Records 4 tracks in 1 direction; 3.75 ips; Dolby C NR; pitch control; 2 mic inputs; 4 line outputs; overdubs and punches in; sync input to track 4 for MIDI; ch insert points for signal processors. Each input ch has straight-line fader, high and low tone controls, source/tape button, assignment button to mix buss or direct, pan control, aux send control. W&F 0.1% peak wtd; FR 40-14,000 Hz; S/N 70 dB wtd $795

Model X-30 4-Track Cassette Deck/Mixer
Records 4 tracks in 1 direction (up to 2 at once); Dolby B and Dolby C NR; pitch control; color-coordinated controls; 4 track by 2 ch submixer for overdub monitoring; optional foot control for overdubbing, punch-in, programming. W&F 0.1% peak wtd; FR 40-12,500 Hz; S/N 70 dB wtd $595

HARMAN KARDON

CD491 Dolby B/C/HX Pro Cassette Deck
Ultrawideband cassette deck with direct-drive dual-capstan transport; 3 heads; 2 motors; Dolby B; Dolby C; Dolby HX Pro; bias fine trim with record and bias calibration test-tone oscillators; music search; output level control; memory stop/play; logic control; weighted peak-hold LED meters; mic inputs; mic/line mixing; headphone jack; rec mute. Timer controllable. W&F 0.025% WRMS; FR with all tape types 20-24,000 Hz ± 3 dB; S/N (A-wtd, with high bias tape) 58 dB no NR, 66 dB Dolby B, 75 dB Dolby C $950

TD392 Dolby B/C/HX Pro Cassette Deck
3 heads for monitoring during recording; Sendust record head, narrow-gap high-density ferrite play head; 1 motor; Dolby B; Dolby C; Dolby HX Pro; solenoid logic transport; bias fine trim with test-tone oscillator; output level control; weighted LED meters; headphone jack; rec mute. W&F 0.05% WRMS; FR with all tape types 20-22,000 Hz ± 3 dB; S/N (A-wtd, with high-bias tape) 58 dB no NR, 66 dB Dolby B, 75 dB C $675

CD302 Cassette Deck
Cassette deck with sendust record/play head and logic-controlled solenoid transport; Dolby B; Dolby C; Dolby HX Pro; bias fine tuning; output level control; rec mute; headphone jack; defeatable multiplex filter. W&F 0.05% WRMS; record-play FR, ferric 20-21,000 Hz ± 3 dB, high-bias 20-21,000 Hz ± 3 dB, metal 20-21,000 Hz ± 3 dB; S/N (A-wtd), high bias 65 with Dolby B, 73 with Dolby C $450

CD202 Cassette Deck
Narrow-gap permalloy record/play head; Dolby B and C NR; logic transport with solenoid controls; bias fine tuning; 2 heads; LED meters. W&F 0.05% wrms; record-play FR, metal 20-20,000 Hz ± 3 dB; S/N (A-wtd) high bias 65 with Dolby B, 73 with Dolby C $325

CD102 Cassette Deck
Narrow-gap permalloy record/play head; Dolby B NR; full-logic transport with solenoid controls; 2 heads; 1 motor; LED meters. W&F 0.05% wrms; record-play FR, metal 20-20,000 Hz ± 3 dB $285

HITACHI

DW99 Double Autoreverse Cassette Deck
High-speed 1-touch dubbing; 20-part FL peak meter with peak-hold selector; timer rec/play; 4-digit FL counter; music scan; random memory program search; 3 motors; Dolby B and Dolby C; blank skip; memory stop/play; unified-remote-control compatibility. W&F 0.04% wrms; FR ferric 30-14,000 Hz ± 3 dB, high bias 30-15,000 Hz ± 3 dB, metal 30-16,000 Hz ± 3 dB; S/N metal 66 dB Dolby B, 72 dB Dolby C; 12.62" w x 3.5" h x 14.12" d; 15.5 lb $500

DW77 Double Autoreverse Cassette Deck
Logic control; high-speed dubbing; Dolby B and Dolby C; music scan; random memory program search; 4 motors; auto tape selector; timer rec/play; blank skip; LED meters; rec mute; headphone jack; unified-remote-control compatibility. FR ferric 30-14,000 Hz ± 3 dB, high bias 30-15,000 Hz ± 3 dB, metal 30-16,000 Hz ± 3 dB; S/N 66 dB Dolby B, 72 dB Dolby C. 14.5" w x 5.12" h x 11" d; 10.5 lb $400

DW33 Double Autoreverse Cassette Deck
High speed; soft-touch controls; auto tape selector; timer rec/play; continuous play; synchronized dubbing start; 2 motors; Dolby B; blank skip; LED meters; headphone jack. W&F 0.08% wrms; FR ferric 30-14,000 Hz ± 3 dB, high bias 30-15,000 Hz ± 3 dB; 30-15,000 Hz ± 3 dB; S/N metal 65 dB Dolby B $220

JVC

DDVR77J Cassette Deck
Autoreverse cassette deck with Multi-Editor that allows creation of fade-ins and fade-outs after a tape is recorded. Features Dolby B & C NR; "Reel Rock" to allow you to locate precise edit points in forward or reverse at full speed or half-speed; quick autoreverse; digital peak display; two-motor full-logic transoprt; direct-drive capstan; index scan; blank search; music scan; block repeat; blank skip; auto rec mute; 4-way digital counter; headphone jack with level control; optional remote control $450
R70E. Remote control unit $50

TDV66JBK Cassette Deck
Computer-controlled discrete three-head cassette deck is remote controllable with optional remote or when used with selected JVC Compu-Link components. Features Dolby B & C NR with MPX filter; full-logic transport controls; SA head; monitor-capable discrete 3-head configuration; DC configured amps; index scan; blank search; block repeat; music scan $450
R70E. Remote control unit $50

TDW660JBK Double Cassette Deck
Double autoreverse cassette deck is remote controllable when used with selected JVC Compu-Link components. Features Dolby B & C NR; twin quick autoreverse systems; two-motor full-logic mechanisms; double-speed editing with synchro start; continuous back-to-back play of two tapes; auto/synchro rec mute (deck B); auto tape selection; music scan; timer start; oversize LCD panel with electronic tape counter $385

TDW60JBK Double Cassette Deck
Double autoreverse cassette deck is remote controllable when used with selected JVC Compu-Link components. Features Dolby B & C NR; twin quick autoreverse systems; two-motor full-logic mechanisms; double-speed dubbing with synchro start; continuous back-to-back play of two tapes; auto/synchro rec mute (deck B); music scan; timer start; 6-LED multi-peak indicator; mode indicator $385

TDW550JBK Double Cassette Deck
Double cassette deck is remote controllable when used with selected JVC Compu-Link components. Features two-motor full-logic mechanisms; double-speed editing with synchro-start; continuous back-to-back play of two tapes; Dolby B & C NR; auto/synchro rec mute (deck B); auto tape selector; music scan; timer start; oversized LCD panel with electronic tape counter $305

TDW330JVK Double Cassette Deck
Double cassette deck is remote controllable when used with selected JVC Compu-Link components. Features two-motor full-logic mechanisms; double-speed editing with synchro-start; continuous back-to-back play of 2 tapes; Dolby B and C NR; auto tape selector; 6-LED multi-peak indicator $265

TDX301JBK Cassette Deck
Computer-controlled autoreverse cassette deck with Dolby B & C NR. Features full-logic transport mechanism; quick autoreverse system with flip reverse head; Compu-Link remote compatible; stereo microphone imputs; 6-LED multi-peak indicator; auto rec mute $240

TDW220JBK Double Cassette Deck
Double cassette deck with Dolby B & C NR. Features U-turn autoreverse system (deck B); soft-touch logic control mechanisms; double-speed editing with synchro start; auto tape selector (deck A); electronic record/play switching; 6-LED multi-peak indicator for each channel; stereo microphone inputs $235

TDX201JBK Cassette Deck
Computer-controlled full-logic cassette deck with Compu-Link remote capability. Features Dolby B

and Dolby C noise reduction; stereo microphone inputs; 6-LED multi-peak indicator; automatic record mute $185

TDW110JBK Double Cassette Deck
Double cassette deck with Dolby B NR. Features two soft-touch logic control mechanisms (1 playback, 1 rec/play); double-speed editing with synchro start; ANRS noise reduction system; auto tape selector (deck A); electronic record/play switching; 6-LED multi-peak indicator for each channel $165

KENWOOD

KX-96W Double Autoreverse Cassette Deck
Double cassette deck with dual bidirectional rec/play system. Features quick-reverse; two motors; full-logic computer control; Dolby B & C NR; high-speed dubbing; continuous relay play; relay and dual recording; direct 16-program search system; index scan; headphone jack; LED peak meters; auto tape selector. W&F 0.1% wrms; S/N 72 dB; FR 30-15,000 Hz ± 3 dB (Type II). Remote controlled through KC-206 preamp and Kenwood receivers. 16.53" w x 4.69" h x 10.44" d; 11.4 lb $380

KX-660HX Full-Logic Cassette Deck
Basic series cassette deck with Dolby HX Pro headroom extension system. Features Dolby B & C NR with dynamic stabilizer; manual/auto recording bias adjust control; low-imp Permlic rec/play head; silent 2-motor drive with full-logic computer control; high-rigidity mechanism and head mount; direct 16-program search system; auto-rec mute; blank search; index scan; re-recording standby; repeat with auto blank skip; counter zero stop; master rec and L/R preset level controls; FL wide-range peak meters; FL linear tape counter; auto tape sel; headphone jack; L/R mic inputs; timer rec/play capable. FR 20-18,000 Hz ± 3 dB (metal); W&F 0.06% wrms. 17.31" w x 4.44" h x 12.81" d; 11 lb $300

KX-66CW Double Cassette Deck
Cassette deck with autoreverse play/rec deck and unidirectional playback only deck. Features full-logic computer control; Dolby B & C NR; 2 motors; high-speed dubbing; continuous relay play; relay recording; direct 16-program search system; index scan; auto tape selector; auto rec mute; headphone jack; LED peak meters. W&F 0.1%; S/N 72 dB; FR 30-15,000 Hz ± 3 dB (Type II). Remote controlled through KC-206 and Kenwood receivers; 11.2 lb $280

KX-76R Autoreverse Cassette Deck
Full-logic control cassette deck with 9-program search system. Features Dolby B & C NR; index scan; continuous autoreverse; auto tape selector; auto recording mute; LED peak meters; headphone jack; L/R mic inputs; remote controlled through KC-206 preamp and Kenwood receivers. W&F 0.06% wrms; S/N 73 dB; FR 30-15,000 Hz ± 3 dB (Type II). 16.56" w x 4.5" h x 10.63" d; 8.4 lb $250

KX-56CW Double Cassette Deck
Features 1 rec/play mechanism; Dolby B & C NR; two motors; soft-touch controls; high-speed dubbing; single relay paly; auto tape selector; LED peak meters; headphone jack; L/R mic inputs; timer ready; remote controlled through KC-206 preamp and Kenwood receivers. W&F 0.15% wrms; S/N 72 dB; FR 30-15,000 Hz ± 3 dB (Type II). 16.56" w x 4.69" h x 10.44" d; 8.8 lb . $200

KX-46C Cassette Deck
Features soft-touch controls; music search; auto tape selector; LED peak meters; L/R mic inputs; headphone jack; timer ready. W&F 0.09% wrms; S/N 72 dB; FR 30-15,000 Hz ± 3 dB (Type II). 16.56" w x 4.81" h x 10.56" d; 8.4 lb $175

KYOCERA

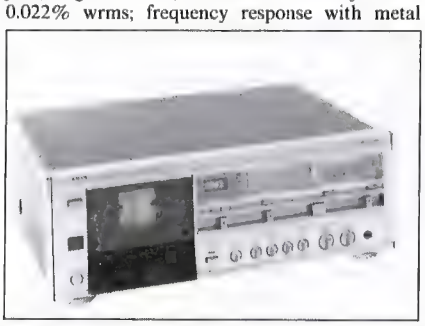
D-811 Dolby B/C/HX Pro Cassette Deck
2 heads; 3 motors; 3 preset bias/EQ's; Dolby B; Dolby C; dual capstans; bias fine tuning; direct drive; digital electronic counter for elapsed and remaining time; output level control; memory repeat stop/play; LED peak-hold meters; soft-touch controls; mike inputs; headphone jack with volume control; rec mute; wireless remote. W&F 0.02% wrms; metal 20-22,000 Hz ± 3 dB, high bias 20-20,000 Hz ± 3 dB, normal 20-20,000 Hz ± 3 dB; S/N (A-wtd) metal: 58 dB no NR, 10 dB Dolby B, 20 dB Dolby C; line-input sens for 0-dB reading 70 mV; line output level with 0-dB indication 580 mV; mike input sens 0.5 mV... $750

D-611 Dolby B/C Cassette Deck
2 heads; 3 motors; 3 preset bias/EQ's; bias fine tuning; direct drive; output level control; memory repeat stop/play; LED meters; soft-touch controls; mike inputs; headphone jack; rec mute; wireless remote. W&F 0.035% wrms; metal 20-22,000 Hz ± 3 dB, high bias 20-20,000 Hz ± 3 dB, normal 20-20,000 Hz ± 3 dB; S/N (A-wtd) metal: 58 dB no NR, 10 dB Dolby B, 20 dB Dolby C; line-input sens for 0-dB reading 70 mV; line output level with 0-dB indication 580 mV; mike input sens 0.5 mV. 18.12" w x 4" h x 12.12" d; 16 lb $550

Remote-Control Accessories
RC-101 Remote Control Center. For selection/function control of Kyocera products. Single-cable interconnect to units; 2 external remote sensor inputs; manual override $320
RS-103 Sensor. Single-cable connection to Kyocera RC-101 control center and external remote-control sensor. Allows multi-room remote control of Kyocera remote-capable CD player, receivers, and cassette decks $90
RT-102 Transmitter. Handheld transmitter with 12 receiver, 6 tape deck, and 5 CD player functions. Auto system power on/off. Controls main functions on Kyocera's remote-control components directly or through remote sensors ... $60

LUXMAN

K-03 Direct-Drive Cassette Deck
3-head cassette deck features 3 motors; Dolby B and C NR; dual capstans; bias fine tuning; direct drive; remaining time counter; output level control; memory stop/play; rec mute; headphone jack; logic control; Duo-Beta circuitry. W&F 0.022% wrms; frequency response with metal



tape 20-22,000 Hz, CrO_2 20-20,000 Hz, normal 20-20,000 Hz; signal-to-noise ratio with metal tape and Dolby C >73 dB, Dolby B >67 dB, no noise reduction >60 dB; 17.81" wide x 6.38" high x 14.38" deep; 24.64 lb $1,200

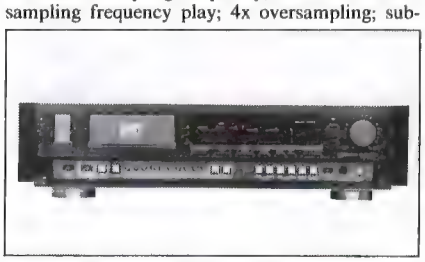
K106 Autoreverse Cassette Deck
Remote-capable cassette deck with timer function. Features blank search; rec mute/auto space; auto tape selector; programmable search; auto record pause; auto scan; intro scan; 2 heads; 3 motors; Dolby B; Dolby C; dbx; Dolby HX Pro; dual capstans; bias fine tuning; blank skip; elapsed-time counter; music search; memory stop/play; LED meters; soft-touch controls; rec mute; headphone jack. W&F 0.05% wrms; FR (± 3 dB) ferric 20-17,000 Hz, high bias 20-19,000 Hz, metal 20-19,000 Hz; S/N (A-wtd) ferric: 66 dB Dolby B, 70 dB Dolby C, 89 dB dbx; high bias: 67 dB Dolby B, 71 dB Dolby C, 90 dB dbx; metal: 67 dB Dolby B, 71 dB Dolby C, 90 dB dbx. 9.9 lb; 17.25" w x 4.5" h x 12.06" d . $580

K-112 Cassette Deck
Features Dolby HX Pro, Dolby B and C; feather-touch full-logic-controls; 4-digit electronic counter with memory; fine bias control; system remote control capability. S/N metal Dolby C 73 dB, CrO_2 72 dB; distortion 0.3%; W&F 0.05% wrms; FR metal 20-21,00 Hz ± 3 dB; CrO_2 20-20,00 Hz ± 3 dB $500

K105 Autoreverse Cassette Deck
Remote-capable cassette deck with blank search. Features rec mute/auto space; auto record pause; auto scan; intro scan; 2 heads; 3 motors; Dolby B; Dolby C; dbx; dual capstans; blank skip; elapsed-time counter; music search; LED meters; soft-touch controls; rec mute; headphone jack. W&F 0.05% wrms; FR (± 3 dB) ferric 30-16,000 Hz, high bias 30-18,000 Hz, metal 30-18,000 Hz; S/N (A-wtd) ferric: 65 dB Dolby B, 69 dB Dolby C, 90 dB dbx; high bias: 67 dB Dolby B, 71 dB Dolby C, 90 dB dbx; metal: 67 dB Dolby B, 71 dB Dolby C, 90 dB dbx. 9.9 lb; 17.25" w x 4.5" h x 12.06" d $480

MARANTZ

DT84 Digital Audio Tape Deck
DAT deck with wireless remote control. Records at 48-kHz sampling frequency; 44.1 and 48 kHz sampling frequency play; 4x oversampling; sub-



code post recording; 30-track random-program play; cue/review; 200x high-speed search; 2-way repeat; auto rewind/auto replay. FR 5-20,000 Hz; S/N 96 dB; THD 0.01% $1,900

SD-55 Stereo Cassette Deck
2 head cassette deck with dual motor and microprocessor control. Features Dolby B and C NR; variable bias fine tune control; auto tape type sensor; rec mute; memory tape counter with auto stop; MPX filter $780

Double Cassette Decks

SD565 Autoreverse Double Cassette Deck
Double cassette deck with autoreverse, record, and playback for both transports. Features 15-song quick music search; auto tape selector; high-speed dubbing; mike/line mixing; auto rec mute; Dolby B & C; 2 heads; 2 motors; memory stop/play; LED meters; soft-touch controls; mic inputs; headphone jack. W&F 0.05% wrms; record/playback FR (± 3 dB) ferric 35-15,500 Hz, high bias 35-16,500 Hz, metal 35-17,500 Hz; S/N (all A-wtd) metal 65 dB Dolby B, 72 dB Dolby C. 16.5" w x 4" h x 10.25" d; 11.9 lb $450

SD160 Double Cassette Deck
Features Dolby B NR; high-speed dubbing; mic input, LED meters. FR normal 40-13,000 Hz,

CrO_2 40-14,000 Hz, metal 40-15,000 Hz; S/N without NR 54 dB, Dolby B 64 dB; W&F 0.08%. 4.38" h x 16.5" w 7.25" d; 8.4 lb $170

Portable Cassette Decks

PMD 430 dbx Portable Cassette Deck
3-head AC/DC cassette deck with Dolby B. Features fine-bias control; headphone jack with adjustable volume; dual recording level controls; 2 mic inputs; switchable mic attenuation (0, −15, −30 dB); auto replay; pitch control; 3.5 lb; 2" x 9" x 6.5" $550
RB 430. Rechargeable NiCad battery pack . $50

PMD 420 Dolby B Portable Cassette Deck
Features 2 heads; bias fine tuning; mic inputs; headphone jack; built-in speaker; pitch control; 3-position tape selector; switchable limiter; 3-way power. W&F 0.12% wrms; FR ferric 40-14,000 Hz ± 3 dB, high bias 40-15,000 Hz ± 3 dB, metal 40-16,000 Hz ± 3 dB; S/N (A-wtd) ferric: 51 dB no NR, 59 dB Dolby B; line-input sens for 0-dB reading 70 mV; line output level with 0-dB indication 400 mV; mike input sens 0.3 mV. 9" w x 2" h x 6.5" d; 2.9 lb $450

PMD 221 Portable Cassette Deck
Features 2 speeds (1.88 and 0.94 IPS); 3 heads; mic inputs; headphone jack; built-in speaker; built-in mike; pitch control; 3-position tape selector; ext mike and speaker jacks; manual or auto level control; switchable limiter; 3-way power. W&F 0.12% wrms; FR ferric 40-12,500 Hz ± 3 dB. S/N (A-wtd) ferric: 48 dB no NR; line-input sens for 0-dB reading 70 mV; line output level with 0-dB indication 400 mV; mike input sens 0.3 mV. 9" w x 2" h x 6.5" d; 2.9 lb..... $330

PMD 201 Portable Cassette Deck
Features 2 speeds (1.88 and 0.94 IPS); 2 heads; mic inputs; headphone jack; built-in speaker; built-in mike; pitch control; 3-position tape selector; ext mike and speaker jacks; manual or auto level control; switchable limiter; 3-way power. W&F 0.12% wrms; FR ferric 40-12,500 Hz ± 3 dB. S/N (A-wtd) ferric: 48 dB no NR; line-input sens for 0-dB reading 70 mV; line output level with 0-dB indication 400 mV; mic input sens 0.3 mV. 9" w x 2" h x 6.5" d; 2.9 lb..... $280

MITSUBISHI

DT-160 7 Cassette Auto-Changer
Double cassette deck features high-speed dubbing, 9-segment programmable music search, autoreverse, Dolby B..... $385

NAD

6300 Monitor Series Cassette Deck
With Dolby B and Dolby C NR, Dolby HX Pro and Dyneq headroom extension; Play Trim to adjust playback EQ to compensate for differences in cassettes made on other decks (also allows for overall high-frequency compensation); 3 heads and double Dolby; fine bias tuning; elapsed time counter; compatible with normal, high-bias, metal tape; nonsymmetric dispersed-resonance dual-capstan transport; wireless remote; CAR processor to boost level of soft passages 20 dB. Speed accuracy ± 1%; W&F 0.03% wtd rms; FR 30-19,000 ± 3 dB; S/N 59 dB no NR, 68 dB Dolby B, 78 dB Dolby C $898

6155 Dolby B/C/HX Pro Cassette Deck
With Play Trim; Dolby B; Dolby C; Dolby HX Pro; DC servo motors; LED meters $448

6240 Dolby B & C Cassette Deck
Play Trim; Dyneq headroom extension for improved high-frequency response; compatible with normal, chrome, metal tape; bias fine tuning; peak-reading LED meters. Speed accuracy ± 1%; W&F 0.06% wtd rms; FR 30-19,000 ± 3 dB; S/N 59 dB no NR, 68 dB Dolby B, 77 dB Dolby C $298

NAKAMICHI

Dragon Autoreverse Stereo Cassette Deck
Microprocessor-controlled 3-head cassette deck with Dolby B and C. Features Auto Azimuth Correction system; assymetrical diffused-resonance transport; Super Linear Torque direct-drive motors; auto-retracting slot guides; tape-pad lifter; auto tape slack take-up; 2-speed cueing; 2-speed master fader; auto rec pause; rec-level and bias-calibration controls with 2-tone oscillator; dual-gap ferrite/sendust erase head; separate tape and EQ switches for ZX, SX, and EX cassettes; direct-coupled recording and playback amplifiers; left, right, master input levels; output level control; rec mute; high-output headphone jack; defeatable infrasonic filter; 4-digit LED electronic counter with memory stop and repeat. W&F 0.019% wrms; FR 20-22,000 Hz ± 3 dB with ZX tape; S/N Dolby B/C on 66/72 dB at 400 Hz with 3% THD (A-wtd with ZX tape at 400Hz, 0 dB); sep/crosstalk 37/60 dB at 1,000 Hz, 0 dB; input sens/imp 50 mV/50 kilohms line; output level/imp 1 V/2.2 kilohms line, 45 mW/8 ohm headphones; 17.75" w x 5.31" h x 11.81" d; 21 lb $1,995

CR 7A 3-Head Cassette Deck
Discrete cassette deck with asymmetrical diffused-resonance dual-capstan transport. Features 3 motors; auto bias/EQ; Dolby B; Dolby C; manual azimuth adjust; elasped-time counter; remaining-time counter; output level control; memory stop/play; LED meters; soft-touch controls; headphone jack; rec mute; wireless remote; auto & manual tape/equalizer selection; auto fade; auto repeat. W&F 0.027% wrms; FR, ferric 18-21,000 Hz ± 3 dB; S/N (A-wtd), metal 66 dB Dolby B, 72 dB; line-input sens for 0-dB reading 50 mV; line-output level with 0-dB indication 1,000 mV. 17.12" w x 5.31" h x 12" d $1,495

RX-505 3-Head Cassette Deck
Discrete stereo cassette deck with unidirectional auto reverse to eliminate bidirectional azimuth error. Mechanism turns cassette over at end of side during record or playback. Features asymmetrical dual-capstan closed-loop transport; auto fade (20 secs before end of tape); Dolby B and C; DC servo motors; auto record pause; LED peak level meters reading from −40 to +10 dB; dual-speed master fader; punch-in recording; memory stop/play; soft-touch controls. W&F <0.04% wrms; FR 20-20,000 Hz ± 3 dB all tape types; S/N >70 dB with Dolby C and metal tape; THD <0.9% with ZX tape; line-input sens for 0-dB reading 50 mV; line-output level with 0-dB indication 1,000 mV; 17.75" w x 5.69" h x 11.81" d; 22 lb $1,295
RX-202. Similar to above with 2 heads. W&F <0.06% wrms. 17.75" w x 5.38" h x 10" d; 19 lb, 13 oz $695

MR-1 Discrete 3-Head Pro Cassette Deck
Cassette deck with asymmetical dual-capstan diffused-resonance transport. Features Dolby B and C; 3 motors; memory stop; rec mute; external NR loop accessed via standard phono jacks; dual 16-segment peak-reading electronic level meters; Crystalloy recording and play heads; subsonic filter; MPX filter; ± 6% pitch control front-panel 0.25" unbalanced line-input jacks; rear balanced XLR input and output jacks; unbalanced 0.25" rear jacks. Balanced inputs: imp 600 ohms; rated input level +4 dBm; headroom 16 dB to max input level (+20 dBm); min input level −6 dBm. Unbalanced inputs: imp 100 kilohms; nominal recording level with input of −20 dBV (0.1 V); nominal input level 0.316 V. Comes with EIA standard rack-mount adaptor. Optional remote control. W&F 0.027% wrms, ± 0.048% wtd peak; FR 20-20,000 Hz ± 3 dB at −20 dB..... $945

CR 5A 3-Head Cassette Deck
Discrete cassette deck with asymmetrical diffused-resonance dual-capstan transport. Features 3 motors; Dolby B; Dolby C; bias fine tuning; output level control; memory stop/play; LED meters; soft-touch controls; headphone jack; rec mute; auto repeat; dual speed-master fader control; independent L/R. W&F 0.027% wrms; FR, ferric 18-21,000 Hz ± 3 dB; S/N (all A-wtd), metal 66 dB Dolby B, 72 dB Dolby C; line-input sens for 0-dB reading 50 mV; line-output level with 0-dB indication 1,000 mV. 17.12" w x 5.31" h x 12" d; 18 lb, 2 oz $995

BX-300 Dolby B & C Cassette Deck
Discrete 3-head cassette deck with asymmetrical dual-capstan transport driven by direct-drive capstan motor. Features 3 motors; dual capstans; bias fine tuning; direct drive; output level control; memory stop/play; LED meters; soft-touch controls; headphone jack; rec mute; pitch control; wired remote control; 2-speed master fader; defeatable MPX filter; 2-position EQ switch; 3-position tape selector; separate L + R output level. W&F 0.027% wrms; FR ferric 20-20,000 Hz ± 3 dB, high bias 20-20,000 Hz ± 3 dB, metal 20-20,000 Hz ± 3 dB; S/N (A-wtd) metal: 64 dB Dolby B, 70 dB Dolby C; line-input sens for 0-dB reading 50 mV; line output level with 0-dB indication 1,000 mV. 16.94" w x 3.94" h x 9.88" d; 12.4 lb $750

MR-2 2-Head Pro Cassette Deck
Rack-mountable cassette deck with balanced line inputs. Features 3 motors; Dolby B; Dolby C; bias fine tuning; output level control; memory stop; LED meters; mike inputs; headphone jack; pitch control; auto repeat; hyperbolic-contour laminated sendust rec/playback head. W&F 0.06% wrms; FR, ferric 20-20,000 Hz ± 3 dB; S/N (all A-wtd), ferric 62 dB Dolby B, 68 dB Dolby C $559

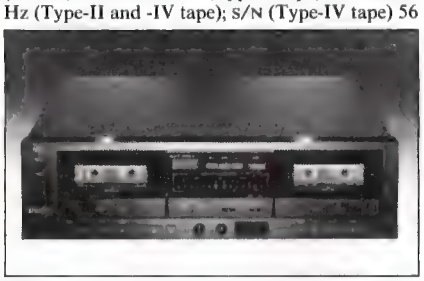
BX-125 Dolby B & C Cassette Deck
Microprocessor-controlled silent-mechanism 2-head cassette deck. Features 2 heads; 3 motors; output level control; memory stop/play; LED meters; soft-touch controls; headphone jack; 2-speed master fader; defeatable MPX filter; 2-position EQ switch; 3-position tape selector; separate L + R output level. W&F 0.06% wrms; FR ferric 20-20,000 Hz, high bias 20-20,000 Hz, metal 20-20,000 Hz; S/N (A-wtd) metal: 62 dB Dolby B, 68 dB Dolby C; line-input sens for 0-dB reading 50 mV; line output level with 0-dB indication 500 mV. 16.94" w x 3.94" h x 9.88" d; 11 lb .. $475

BX-100 2-Head Cassette Deck
Features 3-digit mechanical tape counter; LED meters, Dolby B, DC servo motor, headphone jack. W&F 0.05% wrms; FR 20-20,000 Hz with all tape types; THD <1.0%; S/N metal 62 dB no NR; line-input sens for 0-dB reading 50 mV; line-output level with 0-dB indication 500 mV; 16.94" w x 4.31" h x 9.88" d; 12 lb..... $329

NEC

K-700E Double Cassette Deck
High- and normal-speed dubbing cassette deck can be remote controllable when used with NEC unified-remote integrated amps or receivers. Features 2 heads; 2 motors; 15-program random memory for recording and playback; Dobly B & C; continuous playback; music search; flaying-start recording; auto play; intro play; auto rec mute; 4-digit counters; LED meters; soft-touch controls; mike inputs. W&F <0.06% wrms; FR

(–2 dB) 20-16,000 Hz (Type-I tape), 20-17,000 Hz (Type-II and -IV tape); S/N (Type-IV tape) 56



dB no NR, 66 dB Dolby B, 75 dB Dolby C. 16.88" w x 4.31" h x 10.62" d; 11.5 lb $349

K-510 Double Cassette Deck
High-speed dubbing cassette deck with Dolby B & C. Features continuous playback; synchro-start dubbing; soft-touch controls $249

NIKKO AUDIO

D-100III Autoreverse Cassette Deck
Features 3 heads; Dolby B, C, and dbx; automatic bias programming system (ABPS); manual bias system; random program song selection (RPSS); direct program song selection (DPSS); index programming; real-time counter; intro check; auto spacer; L/R mic inputs; rec mute; mutiplex filter; peak reading meters. Optional wired remote control and rack mount. FR 25-20,000 Hz metal, 25-19,000 Hz high bias, 25-17,000 normal; S/N 92 dB with dbx; dynamic range 110 dB..... $700
D-80II. Same as above except 2 heads and FR 20-19,000 Hz metal, 20-18,000 Hz high bias, 25-17,000 Hz normal; dynamic range 110 dB; S/N 90 dB with dbx $470

ND-850W Cassette Deck
Double cassette deck $430

D-60W Double Cassette Deck
Features 6 motors; high-speed dubbing; Dolby B & C; ABPS; IP; RPSS; random dubbing song search (RDSS). Optionally rack mountable $420

ND-750 Cassette Deck
Full-logic autoreverse cassette deck with Dolby B & C $299

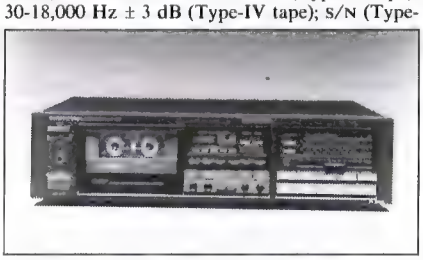
D-30W Double Cassette Deck
High-speed dubbing cassette deck with continuous play. Features Dolby B & C; separate L/R input level controls; multiplex filter; mic inputs; headphone output; soft-touch operation. Optionally rack mountable..... $290

ONKYO

Integra TA-2090 Unidirectional Cassette Deck
Computer-controlled cassette deck with Dolby B, C, dbx NR and Dolby HX Pro. Features 3 heads; 3 motors; auto bias/EQ; dual capstans; bias fine tuning; direct drive; elapsed-time counter; remaining-time counter; music search; output level control; memory stop/play; mike input; headphone jack; rec mute; record calibration controls; sendust heads; MPX filter; fluorescent meters; 2-color peak hold. Remote control and side panels optional. W&F 0.02% wrms; FR 25-17,000 Hz ± 3 dB (Type-I tape), 25-19,000 Hz ± 3 dB (Type-II tape), 25-21,000 Hz ± 3 dB (Type-IV tape); S/N (Type-IV tape) 60 dB no NR, 70 dB Dolby B, 80 dB Dolby C, 87 dB dbx. 17.69" w x 3.93" h x 15.44" d; 20 lb $900
CW-20. Optional woodgrain side panels for TA-2090..... $60/pr

TA-RW490 Double Cassette Deck
Features double autoreverse; double recording; high-speed and real-time dubbing; continuous recording; Dolby B & C; Dolby Hx Pro; 2 real-time tape counters; program music search for both decks; headphone jack; mike input. Remote control optional $600

Integra TA-2058 Unidirectional Cassette Deck
Cassette deck with computer-controlled 3-motor transport, Dolby B& C NR, and Dolby HX Pro. Remote-control compatible with Onkyo remote-controlled receivers. Features auto bias-adjusting system to optimize FR within 5 sec; 3 heads; auto bias/EQ; elapsed-time counter; remaining-time counter; music search; memory stop/play; LED meters; mike inputs; rec mute; headphone jack; MPX filter; 3 repeat modes; master left/right level fader with balance fine tuning. W&F 0.045% wrms; FR 30-17,000 Hz ± 3 dB (Type-II tape), 30-18,000 Hz ± 3 dB (Type-IV tape); S/N (Type-



IV tape) 70 dB Dolby B, 80 dB Dolby C. 17.12" w x 4.36" h x 14.12" d; 14 lb $500
CW-K58. Optional woodagrain side panels for TA-2058 ..... $60/pr

Integra TA-2048 Unidirectional Cassette Deck
Cassette deck with computer-controlled 3-motor transport and Dolby B & C NR. Remote control compatible with Onkyo remote-controlled receivers. Features 3 heads; auto bias/EQ; bias fine tuning; music search; memory stop/play; LED meters; mike inputs; rec mute; headphone jack; master left/right level fader with balance fine tuning. W&F 0.045% wrms; FR 30-17,000 Hz ± 3 dB (Type-II tape), 30-18,000 Hz ± 3 dB (Type-IV tape); S/N (Type-IV tape) 70 dB Dolby B, 80 dB Dolby C. 17.12" w x 4.36" h x 14.12" d; 14 lb $380
CW-K58. Optional woodgrain side panels for TA-2048 ..... $60/pr

TA-W460 Double Cassette Deck
Features high-speed and real-time dubbing; continuous playback; Dolby B & C; computer-controlled tape transport with 4 DC motors; automatic music control system; auto space; auto bias/EQ; LED meters; mike input; headphone jack. Remote control optional. W&F 0.07% wrms; FR 30-15,000 Hz ± 3 dB (Type-I tape), 30-16,000 Hz ± 3 dB (Type-II tape), 30-17,000 Hz ± 3 dB (Type-IV tape); S/N (Type-IV tape) 58 dB no NR. 17.12" w x 4.38" h x 10.12" d; 10.1 lb $330

TA-R260 Autoreverse Cassette Deck
Features Dolby B & C; Dolby Hx Pro; 2 heads; 2 motors; computer-controlled silent-mechanism transport; fine-tuning accu-bias; automatic music control system; auto bias/EQ; real-time 4-digit tape counter; blank skip; mike inputs; headphone jack; auto space; LED meters. Remote control optional. W&F 0.07% wrms; FR 30-14,000 Hz ± 3 dB (Type-I tape), 30-15,000 Hz ± 3 dB (Type-II tape), 30-16,000 Hz ± 3 dB (Type-IV tape); S/N (Type-IV tape) 58 dB no NR. 17.12" w x 4.38" h x 10.38" d; 9.3 lb $330

TA-2140 Unidirectional Cassette Deck
Features Dolby B & C; Dolby Hx Pro; 2 heads; 2 motors; computer-controlled silent-mechanism transport; fine-tuning accu-bias; automatic music control system; auto bias/EQ; real-time 4-digit tape counter; blank skip; mike inputs; headphone jack; auto space; LED meters. Remote control optional. W&F 0.06% wrms; FR 30-15,000 Hz ± 3 dB (Type-I tape), 30-16,000 Hz ± 3 dB (Type-II tape), 30-17,000 Hz ± 3 dB (Type-IV tape); S/N (Type-IV tape) 58 dB no NR. 17.12" w x 4.38" h x 10.38" d; 9.1 lb $310

TA-RW44 Double Cassette Deck
Features autoreverse (deck 2 only); high-speed and normal-spped dubbing; Dolby B; 2 DC-servo motors; auto bias/EQ (deck 2); rec mute; auto stop; time standby mode; music search (deck 2); soft-touch controls; master level fader. W&F 0.07% wrms; FR 30-15,000 Hz ± 3 dB (Type-I tape), 30-16,000 Hz ± 3 dB (Type-II tape), 30-17,000 Hz ± 3 dB (Type-IV tape); S/N (Type-IV tape) 58 dB no NR. 17.12" w x 4.38" h x 10.12" d; 11.7 lb $260

TA-R240 Autoreverse Cassette Deck
Features Dolby B & C; 2 heads; 2 motors; computer-controlled silent-mechanism transport; fine-tuning accu-bias; automatic music control system; auto bias/EQ; blank skip; mike inputs; headphone jack; auto space; LED meters. Remote control optional. W&F 0.07% wrms; FR 30-14,000 Hz ± 3 dB (Type-I tape), 30-15,000 Hz ± 3 dB (Type-II tape), 30-16,000 Hz ± 3 dB (Type-IV tape); S/N (Type-IV tape) 58 dB no NR. 17.12" w x 4.38" h x 10.38" d; 9.3 lb $260

TA-2130 Unidirectional Cassette Deck
Features Dolby B & C; 2 heads; 2 motors; computer-controlled silent-mechanism transport; fine-tuning accu-bias; automatic music control system; auto bias/EQ; blank skip; mike inputs; headphone jack; auto space; LED meters. Remote control optional. W&F 0.06% wrms; FR 30-15,000 Hz ± 3 dB (Type-I tape), 30-16,000 Hz ± 3 dB (Type-II tape), 30-17,000 Hz ± 3 dB (Type-IV tape); S/N (Type-IV tape) 58 dB no NR. 17.12" w x 4.38" h x 10.38" d; 9.1 lb $240

TA-2017B Unidirectional Cassette Deck
Features Dobly B & C; 2 heads; 1 motor; bias fine tuning; LED meters; soft-touch controls; mike inputs; direct-function transport; peak level meters; MPX filter. W&F 0.07% wrms; FR 30-14,000 Hz ± 3 dB (Type-I tape), 30-15,000 Hz ± 3 dB (Type-II tape), 30-16,000 Hz ± 3 dB (Type-IV tape); S/N (Type-IV tape) 56 dB no NR, 66 dB Dolby B, 76 dB Dolby C. 17.13" w x 4.44" h x 10.63" d; 10 lb. Black finish only $190

RC-5T Wired Remote Control
Optional wired remote control operates major transport functions of Onkyo-compatible turntables and cassette decks. 13-ft cord $55

PARASOUND

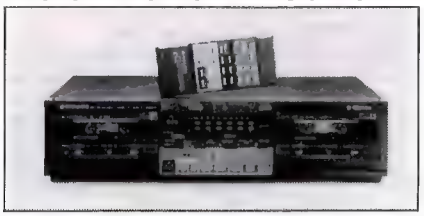
D/HX-600 Dolby B, C, HX Pro Cassette Deck
With Dolby B and Dolby C NR; Dolby HX Pro headroom extension; sendust-alloy head; LED peak and peak storage meters; Play Trim; polystyrene capacitors; hand-selected parts; single DC servomotor; soft-touch controls. S/N 75 dB with metal tape and Dolby C; 17.25 w x 4.5 h x 11 d; 12 lb $335

PIONEER

CT-A9X(BK) Unidirectional Cassette Deck
Features 3 heads; closed-loop dual-capstan drive system; quartz-PLL servo direct-drive capstan motor; ribbon senddust record/play head; 35-segment FL level meters; real-time tape counter; Dolby B & C; DC playback EQ; auto loading; power eject; tape return; music search; auto monitor; auto tape selector; master fader; black finish with rosewood side panels. W&F 0.018% wrms; S/N 58 dB no NR $900

CT-1380WR Double Cassette Deck
Features Pioneer "SR" unified remote control;

autoreverse recording and playback in both decks; Dolby B & C; high-speed dubbing; continuous dubbing; relay record and play; random-access programming of up to 10 songs per tape side;



music search; music repeat; skip search; record mute; synchro start; timer record and playback; gold-plated headphone jack. W&F 0.06% wrms; S/N 57 dB no noise reduction. 16.56" wide x 4" high x 12.38" deep $500

CT-V70 Double Cassette Deck
Features autoreverse; Dolby B, C, and dbx; record and playback on both decks; high-speed dubbing; simultaneous recording; relay record and play; random-access programming of up to 10 songs per tape side. Signal-to-noise ratio 57 dB NR, 92 dB with dbx. 16.56" wide x 4" high x 12.38" deep $485

CT-X707WR(BK) Double Cassette Deck
Features autoreverse; Dolby B & C; high-speed dubbing; relay paly; synchro start; music search; record mute. W&F 0.075% wrms; S/N >57 dB no NR. 3.94" h x 14.19" w x 12.94" d $325

CT-1280WR Double Cassette Deck
Features autoreverse playback and recording on deck 2; autoreverse playback on deck 1; Dolby B & C; relay play; high-speed dubbing; full-logic control; music search; skip search; auto tape selector; record mute. Remote controllable with Pioneer "SR" unified remote control. W&F <0.09% wrms; S/N 57 dB no NR. 16.56" w x 4.75" h x 10.44" d $300

CT-2070R(BK) Autoreverse Cassette Deck
Features Dolby B, C, and dbx; full-logic operation; music search; one-touch recording; 6-segment LED level meters. Remote controllable with Pioneer "SR" unifed remote control. 4" h x 16.56" w x 8.56" d $290

CT-980W Double Cassette Deck
Features record and playback on deck 2; playback only on deck 1; Dolby B & C; high-speed dubbing; auto tape selector; relay play. W&F 0.13% wrms; S/N 54 dB no NR. 16.56" w x 4.75" h x 10.44" d $180

PROTON

740 Autoreverse Cassette Deck
Full-logic-controlled cassette deck with Dolby B, C, and dbx. Features 2 heads; 1 motor; auto bias/EQ; elapsed-time counter; music search; output level control; memory stop/play; LED meters; soft-touch controls; mic inputs; headphone jack; rec mute; sleep timer function; 9 program memory selection; adaptable to timer for playback or record. W&F 0.05% wrms; FR ferric 25-16,000 Hz ± 3 dB, high bias 25-18,000 Hz ± 3 dB, metal 25-19,000 Hz ± 3 dB; S/N (A-wtd) ferric: 49 dB no NR, 58.5 dB Dolby B, 68 dB Dolby C, 78 dB dbx, high bias: 53 dB no NR, 62 dB Dolby B, 71.5 dB Dolby C, 85 dB dbx, metal: 53 dB no NR, 60 dB Dolby B, 70 dB Dolby C, 95 dB dbx; line-input sens for 0-dB reading 90 mV; line output level with 0-dB indication 700 mV; mic input sens 0.35 mV $329

AD-300 Autoreverse Cassette Deck
Features Dolby B & C NR; autoreverse (in play and rec); MPX filter; auto bias selector; full-logic

controls; FR metal bias 40-17,000 Hz ± 3 dB; S/N CrO_2 70 dB; THD 1.5% (metal tape), 1.8% (CrO_2), 1.2% (normal tape) $299

720B Dolby B & C Cassette Deck
Stereo cassette deck with Dolby B and C. Features soft-touch operation; one-touch record; bias circuit to reduce crosstalk between stereo channels; defeatable MPX filter; LED record indicators; balance control; mic inputs; headphone jack; mic/line mixing capability. W&F 08%; FR 30-17,000 Hz ± 3 dB (ferric); 30-17,000 Hz ± 3 dB (high bias), 30-18,000 Hz ± 3 dB (metal); S/N ferric, 65.5 dB with Dolby B, 74 dB with C; high-bias/metal tape, 69.5 dB with Dolby B; 78 dB with C. 16.5" w x 4.38" h x 9.75" d $199

RCA

MTR225 Double Autoreverse Cassette Deck
Dimensia double cassette deck with remote-control operation and on-screen status indication when used with Dimensia monitor. Features Dolby B & C NR; high-speed dubbing; soft-touch electronic controls; microprocessor control; peak meters; random-access programming; scan-and-play system; automatic tape cueing; auto-tape selection; status display; tape mode display; record-level control. S/N 70 dB (Dolby C), 60 dB (Dolby B); W&F <0.07%. 14.63" w x 5" h x 10.38" d $399

REALISTIC

SCT-100 Double Autoreverse Cassette Deck
Dolby B and Dolby C; high-speed dubbing; compatible with normal, high-bias, metal tapes; mic inputs; headphone jack; 2-color 8-LED peak-level meters; sequential play; soft-touch controls. W&F 0.08% wrms; FR (± 3 dB) ferric 40-12,500 Hz, high bias 40-13,000 Hz, metal 40-14,000 Hz; S/N 69 dB Dolby C, 61 dB Dolby B $230

SCT-83 Autoreverse Cassette Deck
Dolby B; Dolby C; music search; solenoid operation; plays 1 side, both sides, or repeats continuously; compatible with normal, high-bias, metal tape; mic and headphone jacks; intro scan. W&F 0.06% wrms; FR (± 3 dB) ferric 40-14,000 Hz, high bias 40-15,000 Hz, metal 40-16,000 Hz; S/N 70 dB Dolby C, 62 dB Dolby B $220

SCT-74 Double Cassette Deck
Dolby B and Dolby C; high-speed dubbing; compatible with normal, high-bias, metal tapes; LED's for power and recording; mic inputs; headphone jack. W&F 0.12% wrms; FR (± 3 dB) ferric 60-10,000 Hz, high bias 60-12,000 Hz, metal 60-14,000 Hz $180

SCT-45 Double Cassette Deck
4 heads; 2 motors; Dolby B; manual azimuth adjust; elapsed-time counter; mic inputs; headphone jack. W&F 0.1% wrms; FR (± 3 dB) ferric 40-12,500 Hz, high bias 40-13,000 Hz, metal 40-14,000 Hz; S/N (A-wtd) ferric 60 dB Dolby B. 16.5" W x 5" H x 8.81" D; 8 lb, 10 oz ... $130

SCT-46 Double Cassette Deck
Dolby B; 2 heads; high-speed dubbing; headphone and mic jacks; Synchro-Start; continuous play; 2-color LED level meters; permalloy rec/play head. W&F 0.1% wrms; FR (± 3 dB) ferric 30-14,000 Hz, high bias 30-15,000 Hz, metal 30-16,000 Hz; S/N (A-wtd) 66 dB with metal tape and Dolby B $150

SCT-35 Dolby B Cassette Deck
2 heads; L/R record level controls; 2-color peak level meters; auto-stop; tape counter; pause; soft-eject door; bias/EQ selector for normal, high-bias, metal tape; 0.25" mic and headphone jacks. FR 40-14,000 Hz ± 3 dB metal and high bias, 40-12,000 Hz ± 3 dB normal; W&F <0.09% wrms. 4.63" x 15.38" x 8.63" $90

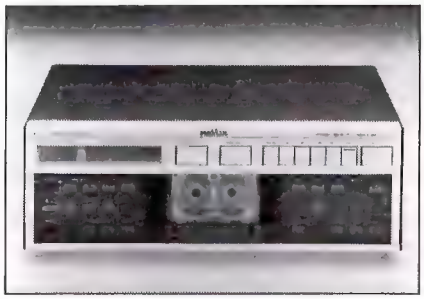
SCP-30 Cassette Player
Plays metal, high-bias, normal tapes; pause; auto stop; simulated walnut cabinet. 8" x 4.5" x 5.25" $50

8-Track Cartridge Player

TR-169 8-Track Cartridge Player
Stereo 8-track player; auto or manual program change; output level control; program LED's. 4" x 10" x 7" $50

REVOX

B215 3-Head Cassette Deck
Cassette deck with 3 microprocessors for control of bias, level, EQ, transport, and real-time counter. Features 3 heads; 4 motors; digital storage of bias, level, EQ settings for 6 tape formulations; manual or auto record-level setting; die-cast transport chassis; azimuth-stable pivoting headblock; 2 programmable locate buttons; loop



mode; auto start-of-record locate. Counter computes elapsed time on partially wound tapes. W&F 0.1% wrms; FR ferric 30-18,000 Hz ± 3 dB, high bias and metal 30-20,000 Hz ± 3 dB; S/N (A-wtd) ferric: 55 dB no NR, 64 dB Dolby B, 70 dB Dolby C, high bias: 57 dB no NR, 65 dB Dolby B, 72 dB Dolby C, metal: 58 dB no NR, 66 dB Dolby B, 72 dB Dolby C; line-input sens for 0-dB reading 50 mV; line output level with 0-dB indication 775 mV; 17.7" x 6" x 13" $1,880

ROTEL

RD870 Dolby B/C/HX Pro Cassette Deck
Features Sendust rec/play head; precision transport mechanism; 2 heads; 2 motors; bias fine tuning; direct drive; LED meters; soft-touch controls; mic inputs; headphone jack. W&F 0.05%; FR metal 30-20,000 Hz ± 3 dB $499

RD850 Dolby B & C Cassette Deck
Cassette deck with sendust rec/play head, ferrite core erase head. Features soft-touch controls; LED meters; mic inputs; DC servo motors; headphone jack. W&F 0.08% wrms; FR ferric 30-17,000 Hz ± 3 dB, high bias 30-17,000 Hz ± 3 dB, metal 30-18,000 Hz ± 3 dB; S/N high bias: 55 dB no NR, 64 dB Dolby B, 72 dB Dolby C; 17" w

For explanations of abbreviations, specifications, and technical terms, consult the glossary on page 221.

CASSETTE DECKS

SAE

C101 3-Head Cassette Deck
Full-logic microprocessor cassette deck with Dolby calibration adjustments. Features 3 heads; 2 motors; LED meters; Dolby B; Dolby C; bias fine tuning; manual azimuth adjust; elapsed-time counter; remaining-time counter; output level controls; memory stop/play; LED meters; soft-touch controls; Sendust heads; remote control optional. W&F 0.06% wrms; FR ferric 20-20,000 Hz ± 3 dB for all tape types; S/N (high bias) 55 dB no NR, 66 dB Dolby B, 75 dB Dolby C; line-input level for 0-dB reading 70 mV; line-output level with 0-dB indication 650 mV; 19" w x 5.25" h x 12.5" d; 17 lb $650

C102 2-Head Cassette Deck
Full-logic microprocessor cassette deck. Features tape transport encased in electronic sliding drawer; 2 heads; 2 motors; Dolby B; Dolby C; manual azimuth adjust; elapsed-time counter; remaining-time counter; music search; blank skip; memory stop/play; LED meters; rec mute; sendust heads. W&F 0.06% wrms; FR 20-20,000 Hz for all tape types; S/N (high bias): 55 dB no NR, 65 dB Dolby B, 74 dB Dolby C; line-input sens for 0-dB reading 70 mV; line output level with 0-dB indication 650 mV. 19" w x 3.5" h x 14" d; 18 lb ... $429

SANSUI

D-W11 Double Cassette Deck
Auto-reverse high-speed dubbing cassette deck. Features 2 heads and 2 motors for each transport; Compu-Edit; 16-track RMPS; 15-track Automatic Music Program Search; auto fader; rec cancel; intro skip; timer record/play; manual and auto level controls; auto bias/EQ; Dolby B & C NR; dual capstans; auto azimuth adjust; elapsed-time counter; music search; blank skip; memory stop/play; LED meters; mike inputs; headphone jack; rec mute; black or silver. W&F 0.05% wrms; FR metal 30-17,000 Hz ± 3 dB; S/N (A-wtd) metal: 57 dB no NR, 66 dB Dolby B, 73 dB Dolby C. 16.94" w x 4.37" h x 12" d; 13.4 lb $600

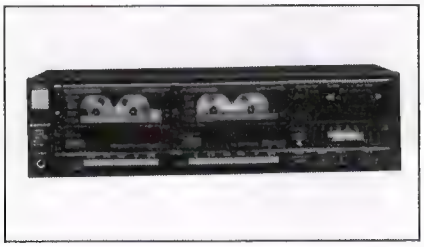
D-705 Dolby B & C Cassette Deck
Cassette with timer record/play and real-time auto tape monitor. Features 3 heads; 2 motors; bias/EQ; dual capstans; bias fine tuning; blank skip; music search; output level control; LED meters; rec mute. W&F 0.035% wrms; FR metal 20-21,000 Hz ± 3 dB; S/N (A-wtd) metal: 68 dB Dolby B. 16.94" w x 4.36" h x 12.25" d .. $500

D-3000WR Double Cassette Deck
High-speed dubbing autoreverse deck. Features LED meters for each channel; full logic, soft-touch controls; Dolby B and C; AMPS (Automatic Music Program Search); rec mute. W&F 0.09% wrms; FR metal 20-17,000 Hz; S/N metal 72 dB Dolby C: 64 dB with Dolby B. 16.94" w x 5" h x 8.97" d; 9.9lb $450

D-505R Autoreverse Cassette Deck
Features timer record/play; real-time tape counter; 2 heads; 2 motors; auto bias/EQ; Dolby B; Dolby C; dual capstans; bias fine tuning; blank skip; auto azimuth adjust; music search; output level control; memory stop/play; LED meters; rec mute; headphone jack. W&F 0.45% wrms; FR metal 20-19,000 Hz ± 3 dB; S/N (A-wtd) metal: 66 dB Dolby B. 16.94" w x 4.36" h x 12.25" d; 11.3 lb $425

SANYO

RDW79 Double Cassette Deck
Features 3-way programmable autoreverse; infrared reverse sensor; auto-reverse record; high-speed dubbing; synchro dubbing; Dolby NR; metal-tape capability; dual level meters; auto stop;



soft-touch transport controls; tape counter; headphone jack $190

RDW59 Double Cassette Deck
Features Dolby NR; continuous playback; high-speed dubbing; synchronous dubbing; metal-tape capability; dual level meters; auto-stop; soft-touch transport controls; 3-digit tape counter; headphone jack $90

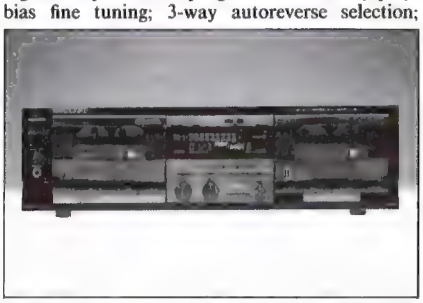
RDW49 Double Cassette Deck
Features Dolby NR; continuous playback; high-speed dubbing; synchro dubbing; metal-tape capability; dual level meters; auto stop; soft-touch transport controls; 3-digit tape counter; headphone jack $90

RDW41 Double Cassette Deck
Features synchro dubbing; continuous playback; Dolby NR; metal-tape capability; soft-eject doors; 5-segment LED level meters; 3-digit tape counter; auto stop $80

RDS29 Cassette Deck
Features soft-touch controls; Dolby NR; permalloy heads; metal-tape capability; 5-segment VU meters; headphone jack; input level controls; 3-digit tape counter $60

SCOTT

DD686 Double Autoreverse Cassette Deck
Remote control; Dolby B, Dolby C, dbx NR; full-logic transports; auto program search; relay play; bias fine tuning; 3-way autoreverse selection;



headphone jack with volume control. W&F 0.08% wrms; FR (± 3 dB) 30-14,000 ferric, 30-15,000 high-bias, 30-16,000 metal; A-wtd S/N: 62 dB with Dolby B, 70 dB with Dolby C, 90 dB with dbx $550

DD688 Double Cassette Deck
Dolby B and Dolby C NR; high-speed dubbing; music search; LED meters; soft-touch controls; headphone jack; continuous play. W&F 0.15% wrms; FR (± 3 dB) 40-13,000 ferric, 40-14,000 high-bias, 40-15,000 metal; A-wtd S/N: 62 dB with Dolby B, 70 dB with Dolby C $250
DD677. As above but without Dolby C and music search $250

SHARP

RT-6W800(BK) Double Cassette Deck
Autoreverse high-speed-dubbing cassette deck with Dolby B. Features soft-touch controls; auto program search; LED peak level meters; metal-tape capability; 2 heads; 1 motor; music search; output level control; mike inputs; headphone jack. W&F 0.08% wrms; record/playback FR ferric 40-13,000 Hz ± 3 dB, high bias 40-14,000 Hz ± 3 dB; metal 40-16,000 Hz ± 3 dB; 17" w x 4.89" h x 9.89" d $220

RT-W500(BK) Double Cassette Deck
Cassette deck with high-speed synchronous dubbing and continuous playback capabiity. Features 2 heads, 1 motor; Dolby B; LED peak level meters; headphone jack; mic inputs; metal-tape capability; auto stop. W&F 0.12% wrms; record/playback FR ferric 50-11,000 Hz ± 3 dB, high bias 50-12,000 Hz ± 3 dB; metal 50-13,000 Hz ± 3 dB; 17" w x 4.88" h x 8.56" d; 7.3 lb $120

RT-115(BK) Dolby B Cassette Deck
Features metal-tape capability; 2 heads; 1 motor; headphone jack; LED peak level meters; auto stop. W&F 0.1% wrms; record/playback FR ferric 50-11,000 Hz ± 3 dB, high bias 50-12,000 Hz ± 3 dB; metal 50-13,000 Hz ± 3 dB; 15.36" w x 4.62" h x 8.62" d; 5.5 lb $80

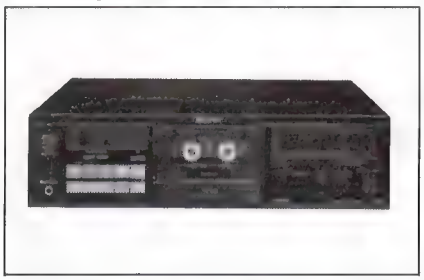
SHERWOOD

S-289RDR Double Cassette Deck
Features autoreverse dubbing capability; 2 dubbing speeds; Dolby B & C NR; compatible with

Sherwood Digi-Link remote components; auto music search; auto tape select; LED peak level indicators; relay playback for continuous listening of both decks; timer/start; rec mute $300

SONY

TC-K700ES Unidirectional Cassette Deck
Three-head cassette deck with a mid-ship drive system that separates the control circuitry from the audio circuits leaving the tape transport mechanism in the mid-ship portion of the chassis. Features twin monaural DC amp design; LC-OFC laser amorphous heads; Dolby B & C; memory



stop/play; auto playback-EQ selector; MPX filter switch; auto play; auto space rec mute; timer record and playback; linear counter; counter subtract function for remaining time indication; headphone jack with adjustable level. W&F 0.025% wrms; FR 20-20,000 Hz ± 3 dB (no NR, Type-IV tape); S/N 60 dB (no NR, Type-IV tape). 17" w x 5" h x 13.75" d $700

TC-WR950 Double Cassette Deck
Remote-controlled high-speed-dubbing cassette deck with autoreverse, record, and playback for both decks. Features Dolby B & C for both decks; super bias technology; 2 laser amorphous heads in each deck; 2 motors for each deck; 12-selec-

tion/16-memory direct-access random music sensor for programmed playing and recording; sync record; timer record and playback; auto music sensor for both decks; blank skip for both decks; auto pause; auto play; autospace rec mute; memory stop; auto playback-EQ selector for both decks; 12-segment FL meter; linear tape counter (deck A); switchable tape counter (deck B); headphone jack with adjustable level; feather-touch controls. W&F 0.05% wrms; FR 30-17,000 Hz ± 3 dB (Type-IV tape); signal-to-noise ratio 59 dB (without noise reduction, Type-IV tape). 17" w x 5.38" h x 11.25" d $700

TC-R503 Autoreverse Cassette Deck
Features remote control; Dolby B & C; Dolby Hx Pro; 2 laser amorphous heads; 2 motors; record-level calibration; timer record and playback; auto music sensor; music scan; blank skip; auto play; autospace rec mute; memory stop; auto playback-EQ selector; 24-segment FL meter; linear tape counter; headphone jack with adjustable level; feather-touch controls. W&F 0.05% wrms; FR 30-17,000 Hz ± 3 dB (Type-IV tape); S/N 59 dB (no NR, Type-IV tape). 14" w x 4.25" h x 11.25" d $500

TC-WR750 Double Cassette Deck
Remote-controlled high-speed-dubbing cassette deck with autoreverse, record, and playback for deck B and playback and autoreverse for deck A. Features Dolby B & C; 2 sendust heads (deck B); 1 sendust head (deck A); 2 motors for each deck; sync record; timer record and playback; auto music sensor for both decks; blank skip for both decks; auto pause; auto play; autospace rec mute; auto plauback-EQ selector (deck A); manual playback-EQ selector (deck B); 12-segment LED meter; drum tape counter (deck B); headphone jack; feather-touch controls. W&F 0.07% wrms; FR 30-15,000 Hz ± 3 dB (Type-IV tape); S/N 58 dB (no NR, Type-IV tape). 17" w x 5.12" h x 10.88" d $400

TC-WR550 Double Cassette Deck
Remote-controlled high-speed-dubbing cassette deck with record and playback for deck B and playback for deck A. Features Dolby B & C; 2 sendust heads (deck B); 1 sendust head (deck A); 2 motors for each deck; auto music sensor for both decks; blank skip for both decks; auto play; autospace rec mute; auto playback-EQ selector (deck A); manual playback-EQ selector (deck B); 7-segment LED meter; drum tape counter (deck B); headphone jack; feather-touch controls. W&F 0.07% wrms; FR 30-15,000 Hz ± 3 dB (Type-IV tape); signal-to-noise ratio 58 dB (without noise reduction, Type-IV tape). 17" w x 5.12" h x 10.88" d $300

TC-R303 Autoreverse Cassette Deck
Features remote control; Dolby B & C; 2 laser sendust heads; 2 motors; cue; auto play; autospace rec mute; manual playback-EQ selector; 12-segment LED meter; drum tape counter; headphone jack; microphone input; feather-touch controls. W&F 0.07% wrms; FR 30-15,000 Hz ± 3 dB (Type-IV tape); signal-to-noise ratio 58 dB (without noise reduction, Type-IV tape). 17" w x 4.25" h x 10" d $240

TC-WR250 Double Cassette Deck
High-speed-dubbing cassette deck with record and playback for deck B and playback for deck A. Features Dolby B & C; 2 sendust heads (deck B); 1 sendust head (deck A); 1 motor for each deck; timer record and playback; auto playback-EQ selector (deck A); manual playback-EQ selector (deck B); 7-segment LED meter; drum tape counter (deck B); headphone jack; soft-touch controls. Wow-and-flutter 0.012% weighted root mean square; frequency response 30-15,000 Hz ± 3 dB (Type-IV tape); signal-to-noise ratio 58 dB (without noise reduction, Type-IV tape). 16" w x 5.12" h x 9.75" d $210

TANDBERG

TCD 3014A Cassette Deck
8-bit, 32-K, E-PROM microprocessor-controlled stereo cassette deck with 4 servo-controlled tape-transport motors. Features scan to play; scan to stop; auto rewind; auto replay; timer record/play; 3 heads; Dolby B and C; azimuth alignment; bias adjustment; record current adjustment utilizing built-in test system; linear motor to position heads and pinch-rollers to tape; instant "flying start" record/play; Dyneq record equalization; Actilinear II headroom-extension system; peak-reading meters; cue and review at half speed; real time/real revolution counter; LED indication of all transport functions. Wireless infrared remote control with built-in receiver included. Rosewood side panels and rack mounts available ... $1,995

TASCAM BY TEAC

246 4-Track Cassette Deck/Mixer
Combination 4-track multichannel cassette deck and 6-input mixer. Features 2 heads; 2 motors; dbx; memory stop/play; soft-touch controls; headphone jack; 2 speeds; 4-buss mixer; sweep EQ; dbx defeat; pitch control. FR high bias 430-14,000 Hz ± 3 dB at 0 VU record level; line-input sens for 0-dB reading 300 mV; line output level with 0-dB indication 300 mV; mike input sens 1 mV. 22.7 lbs $1,495

234 4-Track Cassette Deck
4-track, 4-channel full-IC-logic cassette deck with sync recording and individual function select for each track recorded. Features 3.75-ips tape speed; digital tape counter; individual VU meters per track with peak LED; punch-in recording; stereo pan pots; balanced and unbalanced inputs; search to zero; block repeat; 3 heads; 3 motors; dbx; output level control; memory stop/play; mike inputs; headphone jack; pitch control. Rack mountable. W&F 0.04%; FR high bias 40-16,000 Hz ± 3 dB; S/N (A-wtd, high bias) 54 dB Dolby B, 95 dB dbx. 19" w x 5.89" h x 14.06" d; 21.6 lb .. $949
234L. As above with 1.88-ips tape speed .. $949

122MKII 4-Track Cassette Deck
2 channels; 3 heads; cobalt amorphous record and play heads; FG-servo direct-drive motor; balanced XLR inputs and outputs; RCA connectors; Hysteresis Tension Servo Control; Dolby HX Pro; bias/level calibration for each ch; index and time counter; block repeat; zero return stop or play; unbalanced phone jack inputs on front panel; rack mountable; Dolby B and Dolby C NR; bipolar power supply; needle VU meters with peak LED's; ± 12% pitch control; output level control; headphone jack with level control; optional remote control (RC-71); fader start. W&F 0.04% NAB, 0.08% peak DIN/IEC/ANSI wtd; FR at −20 dB with no NR: 25-20,000 Hz ± 3 dB metal, to 19,000 Hz ± 3 dB chrome, to 17,000 ± 3 dB normal; THD 1% at 0 VU, 400 Hz; S/N (ref 3% THD) 59 dB no NR, wtd, 68 dB Dolby B, over 1,000 Hz, 78 dB Dolby C, over 10,000 Hz; 19" w x 5.25" h w 11.7" d; 16.94 lb $895
112. Similar to above except basic deck with 2 heads. FR at −20 dB with no NR: 25-19,000 Hz ± 3 dB metal, to 18,000 Hz ± 3 dB chrome, to 17,000 ± 3 dB normal; 13.45 lb $599

112R Autoreverse Cassette Deck
Rotating play and record heads; Hysteresis Tension Servo Control; 16-pin connector on rear for remote control and interfacing with other decks; rack mountable; optional remote control; Dolby B and Dolby C NR; index and time counter; ± 15% pitch control; auto bias/EQ; L and R mic inputs; timer standby; auto monitor. W&F 0.03% NAB, 0.06% peak DIN/IEC/ANSI wtd; FR at −20 dB with no NR: 25-20,000 Hz ± 3 dB metal, to 19,000 Hz ± 3 dB chrome, to 17,000 ± 3 dB normal; THD 1% at 0 VU, 400 Hz; S/N (ref 3% THD) 60 dB no NR, wtd, 70 dB Dolby B, over 1,000 Hz, 80 dB Dolby C, over 1,000 Hz; 18.2" w x 5.6" h w 11.7" d; 12.79 lb $795

Mini-Studio Porta Two Cassette Deck/Mixer
Compact, portable DC-powered combination 4-channel mixer/4-track cassette recorder. Features 2 heads; 1 motor; dbx; elapsed-time counter; output level control; headphone jack; EQ on each channel; separate cue mixer; pitch control; dbx defeat; zero return. W&F 0.05% WRMS; FR high bias 40-12,500 Hz ± 3 dB at 0 VU recording level; S/N high bias 57 dB no NR, 58 dB dbx; line-input sens for 0-dB reading 300 mV; line-output level with 0-dB indication 300 mV. 13" w x 9.81" h x 2.75" d; 6.6 lb $595

TEAC

W-990RX Double Autoreverse Cassette Deck
Continuous recording; parallel recording; 3 motors in each transport; logic control; wireless remote control; sync reverse; 1-touch high-speed or normal speed dubbing; Random Memory Program Dubbing; cobalt amorphous linear-crystal oxygen-free copper rec/play head; Dolby B, Dolby C, dbx NR; independent counters for each transport; 2-color L/R peak meters; intro check; blank scan; timer compatible; rec mute with auto space; headphone jack. W&F 0.045%; FR 30-19,000 Hz 3 dB with metal tape; S/N (3% distortion, wtd) 59 dB no NR, 78 dB (over 1,000 Hz) Dolby C, 91 dB dbx (1,000 Hz); 13.3 lb ... $759

R-919X Autoreverse Cassette Deck
3 motors; 2 erase heads, 1 rotating record/play head; logic control; remote control; Dolby HX Pro headroom extension; double Dolby B, Dolby C, dbx NR; 2-color L/R peak meters; intro check; blank scan; memory stop/play; timer compatible; manual tape calibration; headphone jack; electronic tape counter; CD level check; program search; direct selection; block repeat; MPX filter; optional wooden side panels; output level control. W&F 0.029%; FR 25-20,000 Hz 3 dB with metal tape; S/N (3% distortion, wtd) 60 dB no NR, 80 dB (over 1,000 Hz) Dolby C, 92 dB dbx (1,000 Hz); 13.3 lb $749

V-970X Dual-Capstan 3-Head Cassette Deck
Closed-loop transport; 3 motors; 1 erase head, 1 record head, 1 play head; logic control; remote control; Dolby HX Pro headroom extension; dou-

PRICES LISTED
are manufacturers' suggested retail prices
(also referred to as *list* prices);
actual selling prices are set by individual dealers.
All prices are subject to change without notice.

ble Dolby B, Dolby C, dbx NR; 2-color L/R peak meters; intro check; blank scan; memory stop/play; timer compatible; manual bias calibration with oscillator (separate for L and R ch); headphone jack; electronic tape counter displays time; CD level check; program search; direct selection; block repeat; MPX filter; optional wooden side panels; output level control. W&F 0.028%; FR 25-20,000 Hz 3 dB with metal tape; S/N (3% distortion, wtd) 60 dB no NR, 80 dB (over 1,000 Hz) Dolby C, 92 dB dbx (1,000 Hz)..... $699

AD-4 Cassette Deck and CD Player
Wireless remote control; random program dubbing of 16 tracks; auto space; Dolby B and Dolby C NR; 1 erase, 1 record/play head; autoreverse; synchro start auto dubbing; CD repeat. CD player section: S/N 94 dB; THD 0.02%; sep 90 dB. Cassette deck section: W&F 0.05%; FR to 16,000 Hz $599

W660R Double Autoreverse Cassette Deck
Double quick-autoreverse cassette deck with full IC-logic transport control. Features 2 heads; 3 motors; 2 transports; RMPD; cobalt amorphous head in deck II; continous playback; auto bias/EQ; Dolby B; Dolby C; blank skip; music search; LED meters; rec mute; headphone jack. W&F 0.05% wrms; FR ferric 25-18,000 Hz ± 3 dB, high bias 25-19,000 Hz ± 3 dB, metal 25-20,000 Hz ± 3 dB; S/N (A-wtd) metal: 69 dB Dolby B, 78 dB Dolby C. 12 lb; 17.12" w x 4.36" h x 11.44" d $599
W460-C. Similar to W660R without autoreverse and cobalt amorphous head $549
D-525C. Similar to W460-C without blank scan and RMPD $349

AD-7 Cassette Deck and CD Player
Wireless remote control; random program dubbing of 15 tracks; auto space; rec mute; auto bias/EQ; Dolby B, Dolby C, dbx NR; MPX filter; erase, 1 record/play head; autoreverse; Time Edit calculates CD tracks that will fit on tape, changing order to fill tape; timer compatible; synchro start auto dubbing; blank scan; headphone jack with level control; twin rec-level controls; bias adjust control; CD repeat of disc or program; index search; 3-beam laser. CD player section: S/N 95 dB; THD 0.004% at 1,000 Hz; sep >90 dB; W&F unmeasurable. Cassette deck section: W&F 0.05%; FR 30-19,000 Hz ± 3 dB with metal tape. 16 lb $569

R-616X Autoreverse Cassette Deck
2 motors; 1 erase head, 1 rotating record/play head; logic control; Dolby HX Pro headroom extension; Dolby B, Dolby C, dbx NR; 2-color L/R peak meters; intro check; blank scan; memory stop/play; timer compatible; headphone jack with level control; electronic tape counter displays time; 1-touch recording; independent L/R input controls; program search; direct selection; block repeat; MPX filter; CD level check. W&F 0.05%; FR 25-20,000 Hz with metal tape; S/N (3% distortion, wtd) 59 dB no NR, 74 dB (1,000 Hz) Dolby C, 90 dB dbx (1,000 Hz); 11 lb $489

V-770 3-Head Cassette Deck
Full IC-logic tape transport; 2 motors; auto bias/EQ; Dolby B and Dolby C; Dolby HX Pro; bias fine tuning; elapsed-time counter; music search; output level control; memory stop/play; LED meters; rec mute; headphone jack; intro check; gold-plated jacks; MPX filter; Compumatic Program Search (CPS). W&F 0.05% wrms; FR (all ± 3 dB) ferric 25-18,000 Hz, high bias 25-19,000 Hz, metal 20-20,000 Hz; S/N (A-wtd) metal 69 dB Dolby B, 74 dB Dolby C. 17.12" w x 4.75" h x 10.44" d; 10.8 lb $469

V-550X Dolby B/C/dbx Cassette Deck
Full-IC-logic cassette deck with cobalt amorphous head. Features 2 heads; 2 motors; auto bias/EQ; elapsed-time counter; music search; memory stop/play; LED meters; mic inputs; rec mute; headphone jack; MPX filter; intro check; 1-touch recording. W&F 0.05% wrms; FR ferric 25-18,000 Hz ± 3 dB, high bias 20-19,000 Hz ± 3 dB, metal 20-20,000 Hz ± 3 dB; S/N (A-wtd) metal: 69 dB Dolby B, 74 dB Dolby C, 90 dB dbx. 11 lb; 17.12" w x 4.75" h x 10.44" d . $429

R-435X Autoreverse Cassette Deck
Cassette deck with rotary head system. Features 2 heads; 1 motor; Dolby B; Dolby C; dbx; output level control; LED meters; soft-touch controls; mic inputs; rec mute; headphone jack. W&F 0.06% wrms; FR ferric 30-16,000 Hz ± 3 dB, high bias 30-17,000 Hz ± 3 dB, metal 30-17,000 Hz ± 3 dB; S/N (A-wtd) metal: 65 dB Dolby B, 70 dB Dolby C, 90 dB dbx. 9 lb; 17.12" w x 4.89" h x 10.75" d $299

W-310C Double Cassette Deck
Continuous play; Dolby B and Dolby C NR; compatible with metal tape; 5-part LED VU display; 3-digit tape counter; fine bias control. 6.4 lb $179
W-300. Similar to W-310C except lacks Dolby C and fine bias control $159

V-210C Dolby B/C Cassette Deck
2 heads; 1 motor; uses normal or metal tape; fine bias control; 5-part LED VU meter; 3-digit tape counter; auto stop. 6.4 lb $129
V-200. Similar to V-210C except lacks Dolby C and fine bias control $119

TECHNICS

RS-T80R Double Cassette Deck
Features quick autoreverse, record, and play for both transports; 4 reverse modes; parallel and 3-hr series recording on both transports; series playback; synchro start; FL display; auto bias/EQ; feather-touch controls; remote-control capability with some Technics receivers; high-speed editing; 4 heads; 2 motors; Dolby B, Dolby C, dbx NR; elapsed-time counter; music select; headphone jack. W&F 0.08% WRMS; S/N (A-wtd) high bias 57 dB no NR, 67 dB Dolby B, 75 dB Dolby C, 92 dB dbx. 16.94" w x 4.36" h x 10.91" d; 11.7 lbs..... $600

RS-T55R Double Cassette Deck
Features quick autoreverse for both transports; Dolby B, Dolby C, and dbx NR; high-speed dubbing; auto bias/EQ; synchro start, stop; rec mute; auto space; anti-resonant metallic feet; edit search on Transport A; soft-touch controls; 28-part digital peak readout $420
RS-T33R. Similar to above except lacks dbx and autoreverse on Transport B $350
RS-T22. Similar to RS-T33R execpt lacks synchro stop and rec mute $225
RS-T11. Similar to RS-T22 except lacks Dolby C and digital peak readout $195

RS-B29R Autoreverse Cassette Deck
Cassette deck with V-Tri-Hold rotary head and 3-point head support for minimal lateral/vertical variance and precise alignment in both directions. High-pitch extra-tempered steel-azimuth adjusting screws maintain correct head angle. Features 2 heads; 1 motor; Dolby B and Dolby C; remote-controlled through some Technics receivers; feather-touch controls; auto rec mute; timer rec/play; elapsed-time counter; music select; mike inputs; LED meters; headphone jack. W&F 0.08% WRMS; S/N (A-wtd, with high-bias tape) 57 dB no NR, 67 dB Dolby B, 75 dB Dolby C. 16.94" w x 3.94" h x 9" d; 7.9 lbs $270

RS-B207 dbx Cassette Deck
Features 2 heads; 2 motors; Dolby B, Dolby C, and dbx NR; elapsed-time counter; mike inputs; headphone jack; soft-touch controls; 1-touch recording; full auto stop; digital counter; FL display; rec level balance; timer rec/play. W&F 0.08% WRMS; S/N (A-wtd with high-bias tape) 57 dB no NR, 66 dB Dolby B, 74 dB Dolby C, 92 dB dbx. 16.94" w x 4.53" h x 8.75" D; 7.5 lbs $225

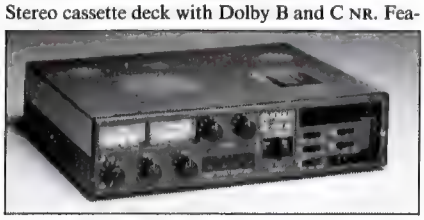
RS-B107 Dolby B & C Cassette Deck
Features FL peak-level meters; 1-touch recording; full auto stop; digital counter; FL display; rec-level balance controls; timer rec/play; 2 heads; 1 motor; elapsed-time counter; mike inputs; headphone jack; soft-touch controls. W&F 0.08% WRMS; S/N (A-wtd, with high-bias tape) 57 dB no NR, 66 dB Dolby B, 74 dB Dolby C. 16.94" w x 4.53" h x 8.75" d; 7.5 lbs $190

RS-B105 Dolby B Cassette Deck
Features direct-mode switching; 2 heads; 2 motors; 1-touch recording; full auto stop; rec-level balance controls; timer rec/play; elapsed-time counter; LED meters; soft-touch controls; mike inputs. W&F 0.08% WRMS; S/N (A-wtd, with high-bias tape) 56 dB no NR, 66 dB Dolby B. 16.94" W × 4.53" H × 9.28" D; 6.6 lbs ... $145

UHER OF AMERICA

CR 1601 Portable Cassette Deck
Compact front-loading portable cassette recorder with monitor facility featuring 8 hours record time and built-in voice actuating system. Features 3 heads; 2 motors; dual capstans; bias fine tuning; manual azimuth adjust; direct drive; elapsed-time counter; output level control; memory stop/play; LED meters; soft-touch controls; mike inputs; headphone jack; rec mute; 3 tape speeds: 1.88 ips, 0.94 ips and 0.16 ips with ALC. W&F <2% wrms; FR ferric 20-19,000 Hz ± 3 dB; 9.3" w x 2.3" h x 7.3" d; 5 lb $1,649

CR-160AV Portable Cassette Deck
Stereo cassette deck with Dolby B and C NR. Fea-



tures 2 heads; 1 motor; manual azimuth adjust; mike inputs; headphone jack; ALC with 2 time constants; sep channel record level control; 3 built-in monitor speakers. Operates on dry cells, 12-V car battery or 120 V AC. W&F 0.2% DIN; FR ferric 30-16,000 Hz ± 3 dB, high bias 30-16,000 Hz ± 3 dB; S/N ferric: 64 dB no NR, 55 dB Dolby B; high bias: 66 dB no NR, 57 dB Dolby B; line-input sens for 0-dB reading 588 mV; line output level with 0-dB indication 775 mV; mike input sens 0.35 mV $899

Accessories

F-423 Diapilot
Self-contained unit for synchronized tape control

The listings are based on data provided by the manufacturers. For more product information, contact an authorized dealer or the manufacturer directly. Manufacturers' addresses and phone numbers are listed in the directory beginning on page 226.

CASSETTE DECKS

operation of automatic slide projector for use with Uher open-reel and cassette decks. DIN plug connector $260

Z-135 Power Supply/Charger
Power supply/charger unit for Uher cassette recorders $107

VECTOR RESEARCH

VCX-345 Double Cassette Deck
Double cassette deck with Dolby B and C NR. Features 2-speed dubbing; synchro-start dubbing; continuous play; power-assist transport controls; mic inputs; manual dubbing/recording level; metal-tape capability; headphone jack. FR 40-17,000 Hz metal tape; S/N 73 dB (Dolby C), 65 dB (Dolby B); W&F 0.06% wrms. 16.56" w x 4.31" h x 8.25" d; 8.5 lb $250

VCX-325 Double Cassette Deck
Double cassette deck with Dolby B NR. Features 2-speed dubbing; synchro-start dubbing; continuous play; power-assist transport controls; mic inputs; manual dubbing/recording level; metal-tape capability. FR 40-15,000 Hz metal tape; S/N 63 dB (with Dolby B noise reduction); wow-and-flutter 0.08% weighted rms. 17.25" w x 4.5" h x 10" d; 8.5 lb $150

VCX-250 Dolby B & C Cassette Deck
Power-assisted 1-motor cassette deck with music search. Features mike inputs; DC servo motor; rec mute; headphone jack. W&F 0.06%; FR ferric, 30-15,000 Hz ± 3 dB; high bias, 30-16,000 Hz ± 3 dB; metal tape, 30-17,000 Hz ± 3 dB; signal-to-noise ratio with metal tape 55 dB no NR, 65 dB Dolby B, 75 dB Dolby C $200

YAMAHA

KX-1200U 3-Head Cassette Deck
3-head cassette deck with 28-key wireless remote control. Features double dbx dynamic expansion; double Dolby B & C NR; ORBIT system with optical balance tuning indicator; closed-loop dual-capstan tape transport; Dolby HX Pro dynamic bias servo; high quality amorphous head; full-logic control; optimum recording level indicator; RS integrated system remote compatibility. Black; 22 lb $699

K-1020B 3-Head Cassette Deck
Features precision closed-loop dual-capstan transport; Sendust rec/play heads; iron-plated double-gap erase head; optimum record bias tuning; double dbx; double Dolby B & C; Dolby HX Pro; dynamic bias servo; wide-range multi-function fluorescent level meters wtih optimum record level indication; 4-digit linear counter; dual-speed FF/Rew; master fader; MPX filter; output level control; rec return; auto rec mute; auto tape selector; full 0-M repeat; memory stop; music search; dual differential; FET EQ amp. W&F 0.03% wrms; FR 20-23,000 Hz ± 3 dB; metal; S/N 95 dB with dbx. 17.12" w x 5.25" h x 15" d; 16.7 lb $649

K-720B Autoreverse Cassette Deck
Features pure sendust heads; Dolby B, C, And HX Pro; dbx; introscan; music search; remaining time; auto fade; linear counter; programmed recording and playback. Black; 13 lb $499

K-640B Autoreverse Cassette Deck
Autoreverse cassette deck with RS integrated system remote compatibility. Features amorphous head; auto fade; remaining time; introscan; car EQ; Dolby B, C, and HX Pro; dbx. Black; 16 lb $419

KX-W500 Double Cassette Deck
Double autoreverse cassette deck with RS integrated remote system compatibility. Features permalloy heads; quick autoreverse; Dolby B & C NR; two-speed dubbing; relay play; auto tape selector; music search; auto rec mute; rec return; 2-color 6-segment peak level meters; timer rec/play; optional RS-KW5 wireless remote control. Black; 11 lb $389

K540B Cassette Deck
Cassette deck with RS remote system compatibility. Features Dolby B, C, and HX Pro; sendust R/P low-impedance head; 3 DC servo motors; full-logic operation; master fader control; 12-segment LED peak level meters; 4-digit linear time tape counter; memory stop; 0-M repeat; output level control. Black; 11 lb $339

K-222B Double Cassette Deck
Features computer-controlled one-way operation dual mechanism; one-touch normal and double speed dubbing; relay play; Dolby B & C NR; RS integrated remote system compatibility. Black; 11 lb $319

KX-400U Autoreverse Cassette Deck
Features permalloy rotary head design; one-way autoreverse; Dolby B, C, and HX Pro; music search; auto tape selector; forward/reverse intro scan; blank skip; phrase repeat; auto fader; rec return; auto rec mute; timer rec/play; optional RS-KW5 wireless remote control; 2-color 6-segment LED peak level meters. Black; 11 lb $299

K340B Cassette Deck
Features Dolby B, C, and HX Pro; sendust R/P low-impedance head; 2 motors; full-logic operation; auto-tape selector. Black; 11 lb $259

K-142B Double Cassette Deck
Features one-way operation dual mechanism; soft-mechanical operation; Dolby B NR; cue and review; relay play; 1-touch record; auto tape selector. Black; 11 lb $239

KX-200U Cassette Deck
Cassette deck with RS remote system compatibility. Features Dolby B and C NR; permalloy head; full-logic operation; forward/reverse intro-scan; full repeat and phrase repeat; optional RS-KW5 wireless remote control; auto tape selector; rec return; auto rec mute; 2-color 6-segment peak-level meters. Black; 11 lb $209

Accessories
RS-KW-5. Infrared remote control for all RS compatible cassette decks. KX-200U, KX-400U, KX-W500U, K-222, K-640, and K-540 .... $50
RMA-K20. Rack mount adaptor for KX-1200U and K-1020B $18

OPEN-REEL TAPE DECKS

REVOX

PR99 MK II Stereo Tape Deck
Stereo half-track recorder with 2 speeds: 15- and 7.5-, or, alternatively, 7.5- and 3.75 ips. Features direct drive; servo-controlled capstan; electrically controlled reel motors; 10.5" reel capacity; balanced XLR line-in/out and switched cal/uncal level settings; high- or low-imp mic input (balanced, XLR option); 2-way Self-Sync with complete tape-editing facilities including tape dump; logic-controlled transport; true VU meters with LED peak indicators; tape/source monitoring; safe/ready record switches; 6-digit LED real-time counter; address locate; zero locate; variable speed control; manual/remote-control/fader-start operation. W&F 0.06% DIN at 15 ips, 0.08% at 7.5 ips, 0.1% at 3.75 ips; FR +2/−3 dB 30-22,000 Hz at 15 ips, to 20,000 Hz at 7.5 ips, to 16,000 Hz at 3.75 ips; S/N 66 dB at 15 and 7.5 ips, 63 dB at 3.75 ips; case or 19" rack mount; 19" w x 15.7" h x 7.9" d $2,799
Console $475
Carrying case $295

B77 MKII Stereo Tape Recorder
Stereo open-reel tape recorder with 3 motors. Two speeds (3.75 ips and 7.5 ips). Features 10.5" reel capacity; front-panel vari-speed control ± 10%; integrated-drive-logic computer-type push-point function keys; built-in tape cutter; dual VU meters with peak level indicators; separate left/right record and input level controls; tape monitor switch; provision for remote control of all functions and electric timer operation; connectors for remote control of tape transport functions, remote control of variable tape speed, and slide projector or crossfade unit. W&F less than ± 0.1% at 3.75 ips, less than 0.08% at 7.5 ips; FR +2/−3 dB 30-16,000 Hz at 3.75 ips, 30-20,000 Hz at 7.5 ips; S/N < 64 dB at 3.75 ips, < 67 dB at 7.5 ips; mic input level/imp 0.15 mV/2.2 kilohms (low position, 50-to-600-ohm mics), 2.8 mV/110 kilohms (high, 20 kilohm mics). Also available in high-speed, low-speed, super-low-speed, two- and four-track versions. 16.3" h x 17.8" w x 8.14" d; 37.5 lb $2,250
B77 Autostart. Same as B77 except with VOX control $2,530
B77 Slide Sync. Same as B77 except with additional head for slide projector control $2,591

TASCAM

44-OB 4-Track Open-Reel Tape Deck
3 heads; ± 12% pitch control; punch-in record-

ing; full-logic feather-touch controls; tape/source monitoring; remote control; LED counter; real-time counter; rack mountable; direct-drive motor; accepts 10.5" reels. Tape speeds 7.5/15 ips; FR 40-22,000 Hz ± 3 dB at 7.5 ips, 30-24,000 Hz ± 3 dB at 15 ips; W&F 0.05/0.06% wrms at 15/7.5 ips; THD 0.8% at 1,000 Hz, 15 ips, 0 VU; S/N 67 dB at 15 ips; output level 1,230 mV. 75 lb; 17" w x 19.88" h x 12.5" d $2,995

42 NB Open-Reel Tape Deck
Half-track open-reel tape deck with 3 heads; ± 12% pitch control; punch-in recording; sound-on-sound; full-logic feather-touch controls; tape/source monitoring; remote control; LED counter; real-time counter; mic/line mixing; separate L/R input level controls; rack mountable; direct-drive motor; accepts 10.5" reels. Tape speeds 7.5/15 ips; FR 30-22,000 Hz ± 3 dB at 7.5 ips, 30-24,000 Hz ± 3 dB at 15 ips; W&F 0.06/0.05% wrms at 7.5/15 ips; THD 0.8% at 1,000 Hz, 15 ips, 0 VU; S/N 70 dB at 15 ips; output level 1,230 mV. 70.5 lb; 17" w x 19.88" h x 12.5" d $2,695

34B 4-Track Open-Reel Tape Deck
3 heads; ± 12% pitch control; full-logic controls; feather-touch controls; tape/source monitoring; remote control; LED counter; mic/line mixing; separate L/R input level controls; rack mountable; accepts 10.5" reels. Tape speeds 7.5/15 ips; FR 40-22,000 Hz ± 3 dB at 15 ips,40-16,000 Hz ± 3 dB at 7.5 ips; W&F 0.05/0.07% wrms at 15/7.5 ips; THD 0.8% at 1,000 Hz, 15 ips, 0 VU; S/N 68/66 dB at 15/7.5 ips; output level 300 mV. 44 lb; 16.06" w x 18.06" h x 10.12" d ... $1,795

32 Open-Reel Tape Deck
Half-track 2-track-mastering open-reel recorder with 3 heads; ± 12% pitch control; punch-in recording; manual cueing; full logic feather-touch controls; tape/source monitoring; remote control; LED counter; mic/line mixing; separate L/R input level controls; rack mountable; accepts 10.5" reels. Tape speeds 7.5/15 ips; FR 40-22,000 Hz ± 3 dB at 15 ips, 40-16,000 Hz ± 3 dB at 7.5 ips; W&F 0.05/0.07% wrms at 15/7.5 ips; THD 0.8% at 1,000 Hz, 15 ips, 0 VU; S/N 68/66 dB at 15/7.5 ips; output level 300 mV. 44 lb; 16.06" w x 18.31" h x 10.12" d $1,495

22-4 4-Channel Open-Reel Tape Deck
0.24-track 4-ch master open-reel recorder with 3 heads, internal logic control, ± 6% pitch control, sync recording, remote punch-in, search to cue, search to zero. Tape speeds 15, 7.5 ips; FR 40-22,000 Hz ± 3 dB at 15 ips; W&F 0.05% wrms at 7.5 ips, 0.04% wrms at 15 ips; THD 1% at 1,000 Hz; S/N 60 dB at 7.5 ips, 61 dB at 15 ips; line input sens 300 mV; output level 300 mV. 40 lb; 16.36" w x 16.12" h x 10.25" d $1,495

22-2 Open-Reel Tape Deck
Half-track 2-channel master open-reel recorder. Features 3 heads; sound-on-sound; tape/source monitoring; mic/line mixing; accepts 7" reels. Tape speeds 7.5/15 ips; FR 40-22,000 Hz ± 3 dB at 7.5 ips, 35-25,000 Hz ± 3 dB at 15 ips; W&F 0.05/0.08% wrms at 15/7.5 ips; THD 1% at 1,000 Hz, 15 ips, 0 VU; S/N 68/64 dB at 15/7.5 ips; output level 300 mV. 30.8 lb $895

TEAC

X-2000R dbx Open-Reel Tape Deck
Quarter-track open-reel tape deck with autoreverse; 6 heads; dbx; ± 12% pitch control; sound on sound; EE tape capability; full logic feather-touch controls; tape/source monitoring; fine bias adjustment; real-time counter; mic/line mixing; separate L/R input-level controls; rack mountable; direct-drive motor; accepts 10.5" reels; rec mute; timer function. Remote control optional. Tape speeds 3.75/7.5 ips; FR 40-22,000 Hz ± 3 dB at 3.75 ips, 40-33,000 Hz ± 3 dB at 7.5 ips; W&F 0.03/0.04% wrms at 3.75/7.5 ips; THD 0.8% at 1,000 Hz, 7.5 ips, 0 VU; S/N 65 dB. 46.2 lb; 17" w x 17.9" h × 10.5" d $1,500
⊄< −≒+×> $1,600

X-2000 dbx Open-Reel Tape Deck
Quarter-track open-reel tape deck with rec mute; timer function; 3 heads; dbx; ± 12% pitch control; EE tape capability; full-logic controls; feather-touch controls; tape/source monitoring; fine bias adjustment; real-time counter; mic/line mixing; separate left/right input level controls; rack mountable; direct-drive motor; accepts 10.5" reels. Remote control optional. Tape speeds 3.75/7.5 ips; FR 40-22,000 Hz ± 3 dB at 3.75 ips, 40-33,000 Hz ± 3 dB at 7.5 ips; W&F 0.03/0.04% wrms at 3.75/3.5 ips; THD 0.8% at 1,000 Hz, 7.5 ips, 0 VU; S/N 65 dB. 17" w x 17.9" h x 10.5" d $1,400

X300R Autoreverse Open-Reel Tape Deck
One-quarter-track open-reel tape deck with 3 heads; EE tape capability; tape/source monitoring; mic/line mixing; separate left/right input level controls; accepts 7" reels. Tape speeds 3.75/7.5 ips; FR 40-22,000 Hz ± 3 dB at 3.75 ips, 40-30,000 Hz ± 3 dB at 7.5 ips; W&F 0.04/0.06% wrms at 3.75/7.5 ips; S/N 65 dB. 33 lb; 16.1" w x 12.75" h x 9.1" d $960

X-300 Stereo Open-Reel Tape Deck
One-quarter-track open-reel tape deck with 3 heads; EE tape capability; tape/source monitoring; mic/line mixing; separate L/R input-level controls; accepts 7" reels. Tape speeds 3.75/7.5 ips; FR 40-22,000 Hz ± 3 dB at 3.75 ips, 40-30,000 Hz ± 3 dB at 7.5 ips; W&F 0.04/0.06% wrms at 3.75/7.5 ips; S/N 65 dB. 30.8 lb; 16.1" w x 12.75" h x 9.1" d $850

TECHNICS

RS-1520US Open-Reel Tape Deck
Compact pro tape deck. Half-track, 2-ch record/play and quarter-track, 2-ch record/play and quarter-track, 2-ch play; 4-head system; 15-, 7.5-, 3.75-ips speeds; quartz PLL DC brushless servo direct-drive capstan motor; reel tables; 2-tape tension-controlled DC brushless direct-drive motors; isolated loop direct-drive transport; full IC-logic tape transport; direct switching from mode to mode without tape strain; separate L and R bias/EQ controls; L and R VU meters; strobe. W&F 0.018% wrms at 15 ips, 0.3% wrms at 7.5 ips; fast-wind time 150 secs with 2,500-ft tape; FR 30-30,000 Hz ± 3 dB at 15 ips, to 25,000 Hz at 7.5 ips; signal-to-noise ratio 60 dB at 0.8% distortion; sep 50 dB; mic input sens 0.25 mV (-72 dB); mic imp 200-10,000 ohms; 17.5" h w 18" w x 10.12" d $2,200

RS-1500US Open-Reel Tape Deck
Open-reel tape deck with 3 speeds (15, 7.5, and 3.75 ips). Features half-track 2-channel record, playback, erase; quarter-track 2-ch playback; quartz PLL DC brushless servo direct-drive capstan motor with double pinch rollers, 2 tape-tension-controlled DC brushless direct-drive reel motors, 4 heads for recording, half- and quarter-track erasure, mixing; reel capacity 10.5"; IC-logic plus transistor tape-transport controls with LED indicators, mode-to-mode switching with auto pause between modes; 3-position bias and EQ switches; dual 2-scale VU meters with ± 3-dB normal, +6-dB high-range meter scale selector; separate mic and line-level input controls with mixing; 0/20-dB mic attenuator; output-level control; L/R tape/source monitor switches; L/R rec mode switches; 4-digit tape counter showing elapsed time in mins, secs; timer start with external audio timer; edit dial; fast-wind time 150 secs (2,500-ft, 1.5-mil tape). W&F 0.018% wrms at 15 ips, 0.03% at 7.5 ips; FR 30-30,000 Hz ± 3 dB at 15 ips, 20-25,000 Hz at 7.5 ips, 20-15,000 Hz at 3.75 ips; S/N 60 dB NAB wtd at 7.5 ips, 58 dB at 3.75 ips; THD at 400 Hz, 0 VU 0.08%; sep 50 dB; input sens/imp 0.25 mV/4.7 kilohms (mic, unbalanced), 60 mV/150 kilohms (line, phono jack); rosewood veneer side panels; 19.36" w x 17.5" h x 10.12" d $1,800
RS-1506US. Similar to RS-1500US except 4-track, 2-ch play/record; 2-track, 2-ch play $1,800
RS-1700. Similar to RS-1506US except autoreversing 4-track, 2-ch record/play $2,200

UHER

1200 Report Monitor Open-Reel Deck
Synchro full-track tape deck with neo pilot. Features 4 heads; ALC on/off switch; switchable roll-off filter; built-in monitor speaker; optional beep generator; pilot frequency device for picture-sync recording. Tape speed 7.5 ips; FR 40-16,000 Hz ± 3 dB; W&F 0.15% wrms; S/N 62 dB; mic input sens 0.2-15 mV; line input sens 40 mV; output level 775 mV. 3.8 kg; 28.5" w x 10" h x 23.5" d $4,499

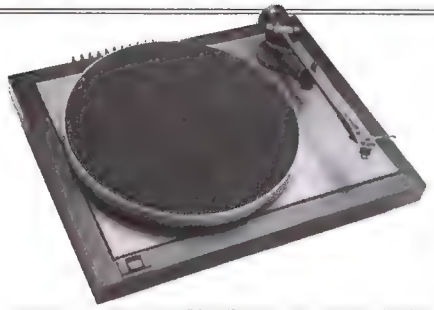
6000 Report Universal Tape Recorder
4-speed (3.75, 1.88, 0.94, 0.47 ips) tape recorder. Records up to 24 hours on 1 tape. Designed for monitoring, court reporting, surveillance. Features 5" reel capacity; built-in DNR; switchable auto level control; electronic tape tension control; 4 motors; switchable loudspeaker; tape counter; A/V input jack. 11" w x 3.5" h x 9" d; 8 lbs $1,729

Report Monitor Series Tape Recorders
Report Monitor series decks feature 3 heads, AC function indicators, integrated power supply, fully electronic amp switching, battery or AC operation, tape-tension regulators, die-cast aluminum casings. All models can be used in portable or stationary applications. Speeds 7.5, 3.75, 1.88, 0.94 ips.
4400 Report Monitor. 4-track stereo $1,549
4200 Report Monitor. 2-track stereo $1,549
4000 Report Monitor AV. Half-track monaural $1,449

Accessories
F-423 Diapilot. Self-contained unit for synchronized tape control operation of automatic slide projector for use with Uher open-reel and cassette decks. DIN plug connector $260
F413 Acoustic Stop/Start Switch. Acoustic activated start/stop switch for use with Uher tape decks $136
Z-125A Power Supply. Power supply and charger for Uher Monitor series decks $130

PRICES LISTED
are manufacturers' suggested retail prices
(also referred to as *list* prices);
actual selling prices are set by individual dealers.
All prices are subject to change without notice.

TURNTABLES



ACOUSTIC RESEARCH

Connoisseur Series

ETL-1 Manual Turntable
Manual belt-drive turntable with electronic speed control and 3-point dual-spring suspension system factory tuned with removable lead weights. Features adjustable isolation feet; sapphire main bearing; 33.33 and 45 rpm; 8.5-lb platter. W&F 0.03% wrms; rumble −81 dB; 20.44″ w x 7.5″ h x 17.5″ d (dustcover down); 29 lb. Natural cherry finish $700

ES-1 Manual Turntable
Manual belt-drive turntable with 24-pole synchronous motor. Features 33 and 45 rpm speeds. W&F 0.04% wrms; rumble −78 dB; effective tonearm mass without cartridge 14.5 g; effective tonearm length 229 mm; max tracking error 2.6°. 18.19″ w x 7″ h x 15.25″ d (dustcover down); 18 lb. Natural cherry, with tonearm..... $500
Natural cherry, without tonearm..... $375

AR Series

EB-101 Manual Turntable
Manual belt-drive pivoted-arm turntable with fully isolated 3-point suspension. Arm and platter on subchassis formed by pressed-steel T-bar spring-suspended and damped at 3 points. 33.33 and 45 rpm. Features 12-pole synchronous motor (500 rpm at 50 Hz, 600 rpm at 60 Hz); 3.9-lb platter; detachable carbon-fiber headshell with clamping screw on arm; base finished in oiled walnut veneer. W&F 0.05% DIN; rumble −72 dB DIN; effective tonearm mass without cartridge 12 g; cartridge weight range 3-9 g; effective tonearm length 229 mm; overhang 16 mm; vertical and horizontal friction <100 mg; 18.19″ w x 7″ h x 15.25″ d (dustcover down); 13.5 lb $425

ADC

LT 60 Automatic Turntable
Linear-tracking belt-drive P-mount turntable. Features 33.33 and 45 rpm; soft-touch electronic controls; illuminated electronic strobe with pitch control; anti-feedback suspension. 16.5″ w x 5″ h x 15.5″ d (dustcover down); 15.5 lb $140

LT 34 Automatic Turntable
Compact linear-tracking belt-drive P-mount turntable. Features 33.33 and 45 rpm; 2 DC-servo-controlled motors; anti-feedback suspension. 13.25″ w x 3.5″ h x 13.75″ d (dustcover down); 9.5 lb $100

RC1 Changer Turntable
Belt-drive truntable stacks up to 4 records. Features 33.33 and 45 rpm; viscous-damped cueing; electronically controlled DC-servo motor. ADC magnetic cartridge included $100

a/d/s/

Atelier P4 Automatic Turntable
Can be controlled by remote when used with a/d/s/ R4 receiver or CC4 tuner/preamp. With quartz-crystal-controlled direct drive; pivoted arm; ultra-low-mass tonearm; 33.33 and 45 rpm; variable speed control with strobe; holds platter and tonearm on a subchassis that floats on 4 tuned mounts. W&F ±0.025% wrms; rumble −75 dB DIN B, 53 dB DIN A; effective tonearm length 8.69″; max tracking error 2.2°; 17.5″ w x 4.53″ h x 14.25″ d (dustcover down); 11 lb $649

RC1 Unified Remote Control
Infrared wireless remote controls P4, R4 receiver, CD3 CD player, and other a/d/s/ components..... $100

AKAI

AP-A305-B Semiautomatic Turntable
Belt drive; straight low-mass tonearm..... $99

BANG & OLUFSEN

Beogram 5500 Automatic Turntable
Short tangential tonearm; 33 and 45 rpm; silver and black; remote controlled by B&O Master Control Panel; repeats play up to 7 times; leaf-spring suspension; compatible with B&O micro-

cross cartridges; auto record-size sensing; auto interior light. W&F 0.06% DIN, 0.03% wrms; DIN-weighted rumble −80 dB; 12.5″ w x 3″ h x 12.75″ d; 11.6 lb $450

Beogram 3300 Belt-Drive Turntable
Tangential tonearm; 33 and 45 rpm; remote control with Terminal 3300 remote, Master Control Link, or Datalink system; black plexiglass and brushed aluminum; can be wall mounted with optional shelves; repeat; interior light; auto pause at end of tape, and cassette deck pauses at end of LP; leaf-spring-suspended subchassis; neoprene belt; electronic speed control (within 0.2%). W&F 0.06% DIN, 0.03% wrms; DIN-weighted rumble −80 dB; 16.5″ w x 3″ h x 12.75″ d; 11.7 lb $399

Beogram TX-2 Automatic Turntable
Tangential-tracking belt-drive turntable; 33 and 45 rpm; fixed headshell. Recommended tracking force 1-1.5 g; W&F 0.03% DIN; rumble −80 dB; 16.5″ w x 3″ w x 12.75″ d; 22 lb $329

Beogram RX-2 Automatic Turntable
Belt-drive turntable with pendulum-suspended chassis and straight pivoting tonearm; 33 and 45 rpm; fixed headshell. Recommended tracking force 1-1.5 g; W&F 0.035% DIN; rumble −75 dB; 16.5″ w x 2.5″ h x 17.9″ d; 16 lb $229

CW & J WALKER
BY MUSIC & SOUND IMPORTS

CJ-58 MKII Manual Turntable
Belt-drive pivoted-arm turntable. Features 33.33 and 45 rpm; 3-point fully adjustable suspension; removable tonearm board; tufnol platter to eliminate ringing. W&F 0.05% wrms; rumble −77 dB; effective tonearm mass without cartridge 11 g; effective tonearm length 229 mm; 20 lb. With MAS 282II tonearm $587
Without tonearm $289

CJ 61 Turntable
Belt-drive turntable with independent 3-point fully adjustable suspension; floating subframe design utilizes a min of vibration-causing materials for excellent dynamic behavior and rapid recovery following excitation. Features manual-pivoted arm, 33.33 and 45 rpm. W&F 0.06%; rumble −77 dB; effective tonearm mass without cartridge 11 g..... $329
Without tonearm $179

DENON

All arm and automatic functions of Denon turntables are noncontact, microprocessor controlled. Motor servo is controlled and maintained by magnetic speed detection.

DP-59L Direct-Drive Turntable
Features massive wood base with isolation; 5.5-lb platter with high-torque direct-drive AC motor. Lift only $650

DP-47F Direct-Drive Turntable
Features dynamic servo tracer; flat-twin direct drive; full auto plus locate function; thick wood base $425

DP-35B Automatic Turntable
Features dynamic servo tracer tonearm; begins and ends play automatically; flat-twin direct drive; high-density compound base. Black . $320

DP-23F Turntable
Full-size automatic turnable with dynamic servo tracer. Black $260

DP-7F Turntable
P-mount automatic turntable with dynamic servo tracer. Black $180

DUAL BY ORTOFON

CS5000 Semiautomatic Turntable
Belt-drive turntable with hall-effect motor and 4-point full-floating suspension system. Features quartz-monitored 3-speed electronic control; optimum-pivot tonearm design; acoustic mat; cueing lever; 33.33, 45, and 78 revolution-per-minute speeds. Wow-and-flutter 0.015% wrms; rumble −56 dB DIN unwtd. Available with black or walnut wood base $450

CS505-3 Semiautomatic Turntable
Belt-drive, heavy mass platter and acoustic mat. Features floating chassis design; vario-pitch; carbon fiber headshell on ULM tonearm. Walnut or

black wood base $350

CS505-2 Belt-Drive Turntable
Semiautomatic turntable with acoustic mat. Features floating-chassis design; vario-pitch; ULM tonearm. Available in black or walnut wood base $290

CS503-1 Semiautomatic Turntable
Belt drive turntable features solid block shock-absorbing chassis with damping feet; heavily damped platter; ULM tonearm; carbon fiber headshell. 33/45 rpm, W&F <0.07%/0.04%; rumble, unwtd. >46dB. 17.3" w x 4.5" h x 14.3" d. Black base $250

CS2215GM Fully Automatic Turntable
Belt drive featuring die-cast aluminum platter with vario-pitch; shock absorber chassis; ULM tonearm with detachable headshell. Black base $250

CS2110GM Semiautomatic Turntable
Belt drive with electronic speed control and shock absorber chassis. Black base $180

HARMAN KARDON

T65C Semiautomatic Turntable
Belt-drive turntable with AC sine-wave driven motor; 33.33 and 45 rpm; ± 3% speed pitch control; 3-point floating suspension with counterweighted subchassis; 3.3 lb. platter; highly absorbent platter mat; disc stabilizer; removable ultra-low capacitance cables with gold-plated plugs. W&F 0.025% wrms; rumble –70 dB DIN-B; tonearm mass without cartridge 9.5 g $575

HEYBROOK BY D'ASCANIO AUDIO

TT-2 Series II Turntable
Hand-assembled belt-drive 33.33- and 45-rpm armless manual turntable with removable armboard. Features low-speed synchronous motor driving massive 2-piece platter; adjustable 3-point spring-suspension subchassis of cast aluminum; laminated armboard; massive wood base. Finished in real walnut or gloss black. W&F <0.1% DIN peak wtd; rumble –73 dB wtd DIN-B. 6.25" h x 17.5" w x 14.25" d; 26 lb $580

HITACHI

HTMD46 Automatic Turntable
Linear tracking; belt drive; MM cartridge with diamond stylus; auto size/speed selector; photo sensor return; feather-touch IC-logic control; muting; front-panel operation; die-cast aluminum-alloy platter; remote controlled through Hitachi HTA50AV or HPT120AV. W&F 0.045% wrms; S/N 70 dB DIN-B $180

J.A. MICHELL BY RMI

Gyrodec Manual Turntable
Belt drive; 33.33 and 45 rpm; balanced 3-point suspension. W&F 0.04% wrms; rumble <78 dB; S/N <76 dB A-wtd. 53 cm w x 19 cm h x 42 cm d (dustcover down); 43 lbs $1,190

Synchro Manual Turntable
Belt drive; 3-point suspension; 33.33 and 45 rpm; W&F 0.05% wrms; rumble <74.5 dB; S/N <72 dB A-wtd. 18" w x 5.5" h x 13.5" d (dustcover down); 18 lbs $650

JVC

QLA75 Quartz-Locked Turntable
Select Series turntable features double-servo quartz control; dynamic-Q damping system for tonearm; J-shaped tonearm interchangeable with straight arm; gimbal support; high-torque corless DC servo motor and heavy platter. Mirror-finished multi-layer solid cabinet. W&F 0.18% wrms; S/N 80 dB (DIN-B). 19.5" w x 8.25" h x 16.5" d; 30.8 lb $650

ALFQ5BK Quartz-Locked Turntable
Automatic direct-drive turntable with double-servo quartz control and Super-FG servo for speed accuracy. Features coreless DC-FG-servo direct-drive motor with smooth cog-free rotation; independent suspension system; low-mass straight tonearm with low-center-of-gravity support for reduced IMD and W&F; space-efficient dustcover; P-mount compatible; repeat; strobe; cueing lever; 33.33 and 45 rpm; floating tonearm/platter suspension. W&F 0.025% wrms; rumble 78 dB; effective tonearm length 220 mm; max tracking error –0°43', +3°35'. 17.19" w x 3.19" h x 14.19" d (dustcover down); 10.8 lbs $180

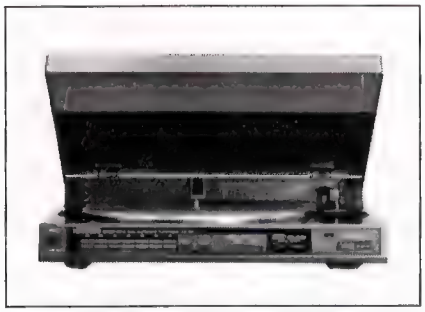
ALF350BK Automatic Turntable
Automatic turntable with remote control capability when used with JVC Compu-Link components. Features new cabinet support system and large insulators; low-mass straight tonearm with low-center-of-gravity support for reduced IMD and W&F; precision DC-servo motor; P-mount compatible; front-mounted cueing control . $165

ALF3BK Automatic Turntable
Automatic direct-drive turntable with new cabinet support system and large insulators for better stability and higher resistance to vibration and acoustic feedback. Features coreless DC-FG-servo direct-drive motor with smooth cog-free rotation; low-mass straight tonearm with low-center-of-gravity support for reduced IMD and W&F; P-mount compatible; pivoted arm; strobe; cueing lever; 33.33 and 45 rpm; variable speed control. W&F 0.03% wrms; rumble 78 dB; effective tonearm length 220 mm; max tracking error –0°43', +3°35'. 17.19" w x 4.25" h x 14.19" d (dustcover down); 10.1 lbs $145

AL-A1BK Semiautomatic Turntable
Semiautomatic belt-drive turntable with new cabinet support system and large insulators for better stability and higher resistance to vibration and acoustic feedback. Features coreless DC-servo belt-drive motor with powerful torque and low noise; low-mass straigh tonearm with low-center-of-gravity support for reduced IMD and W&F; P-mount compatible; pivoted arm; cueing lever; 33.33 and 45 rpm. W&F 0.045% wrms; rumble 65 dB; effective tonearm length 220 mm; max tracking error –0°43', +3°35'. 17.19" w x 4.25" h x 14.19" d (dustcover down); 8.1 lbs $105

KENWOOD

KD-76FC Linear-Tracking Turntable
Programmable direct-drive turntable with 7-track random program memory. Features auto disc size/speed selector; slotless/coreless FG servo drive; dual-magnet type cartridge; cartridge sensor sensitivity selector; remote controlled through KC-206 preamp and Kenwood receivers; W&F



less than 0.025 wrms. 16.56" w x 3.56" h x 14.13" d; 11 lb $240

KD-66F Linear-Tracking Turntable
Automatic direct-drive turntable with auto lead-in and return. Features slotless/coreless FG servo drive; P-mount cartridge connector (cartridge included); cueing control; repeat switch; auto disc size/speed selector; W&F less than 0.025% wrms; remote controlled through KC-206 preamp and Kenwood receivers. 16.56U w x 3.75U h x 14.13U d; 9 lb $200

KD-56R Direct-Drive Turntable
Semiautomatic turntable with slotless/coreless FG servo drive. Features P-mount cartridge connector (cartridge included); straight tonearm; cueing; W&F less than 0.028% wrms. 16.56" w x 4.06" h x 14.38" d; 7.7 lb $130

KD-36R Belt-Drive Turntable
Semiautomatic turntable features straight tonearm; P-mount cartridge connector (cartridge included); cueing; W&F less than 0.05% wrms. 16.56" w x 4.06" h x 14.38" d; 7 lb $120

KYOCERA

PL-910 Manual Turntable
Armless belt-drive turntable with ceramic platter and base. Features 33.33 and 45 rpm; variable speed control with strobe; cutless-core power transformer; dual suspension; heavy-duty DC-servo brushless motor; 11-lb platter assembly. W&F 0.025% wrms; S/N 78 dB DIN-B; accepts 9"-10" tonearms. 18" x 7.5" x 15.25"; 44 lb $2,000

PL-701 Automatic Turntable
Fully automatic turntable with 4.6-lb platter and microcomputer electronic sensing tonearm. Features belt drive; pivoted arm; 33.33 and 45 rpm; variable speed control; strobe. Supplied with stabilizer (0.7 lb); straight aluminum tonearm; dual suspension. W&F 0.03% wrms; S/N 70 dB DIN-B; effective tonearm length 8.88" (0.6" overhang); max tracking error ± 2°; 18.12" w x 6" h x 15.36" d; 19.6 lb $450

PL-601 Semiautomatic Turntable
Front-panel controls; belt drive; dual suspension; pivoted arm; 33.33 and 45 rpm; variable speed control with strobe; wood base with adjustable feet; nonfriction electronic sensing; straight aluminum tonearm. W&F 0.035% wrms; S/N 68 dB DIN-B; effective tonearm length 8.5" (0.6" overhang); max tracking error ± 2°; 18.12" w x 6" h x 15.36" d; 17.4 lb $350

LINN PRODUCTS BY AUDIOPHILE SYSTEMS

LP12 Manual Single-Play Turntable
Belt-drive 33.33-rpm turntable with manual tonearm; 24-pole synchronous motor; 12" zinc-aluminum alloy die-cast platter with felt mat; 1-point oil-bath bearing; hardened tool-steel spindle; adjustable 3-point spring-suspension subchassis; heavy-gauge stainless-steel base plate; solid hardwood base; optional 45-rpm adapter. W&F

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0.04% wrms; rumble −60 dB unwtd; speed accuracy ± 0.04%; 17.5″ w x 14″ d x 5.5″ h .. $945

Axis Manual Turntable
With Class A amplifier; belt-drive; pivoted arm. Plays 33.33-rpm LP's and 45-rpm singles. Speed accuracy 0.1%; W&F 0.05%; rumble −75 dB DIN; effective tonearm length 284 mm; 16 lbs $595

LUXMAN

P-102 Belt-Drive Turntable
Automatic linear-tracking turntable with strobe, variable speed control, floating tonearm/platter suspension, cueing lever, repeat play, manual play. P-mount compatible. Remote capable. W&F 0.04% wrms; rumble 70 dB; effective tonearm length 133 mm; max tracking error 0.1°. 16.36″ w x 4.5″ h x 14.06″ d (dustcover down); 11.61 lb $350

P-100 Belt-Drive Turntable
Automatic linear-tracking turntable with pivoted arm, 3.33 rpm only, variable speed control, floating tonearm/platter suspension, cueing lever. W&F 0.06% wrms; rumble 72 dB; effective tonearm length 222 mm. 16.36″ w x 4.81″ h x 14.89″ d (dustcover down); 11.7 lb $250

MARANTZ

TT-451 Linear-Tracking Turntable
Automatic linear-tracking turntable. Features auto-speed/-size selector; P-mount compatible; 33.33 and 45 rpm; W&F 0.05% wrms; rumble −70 dB. 16.36″ w x 3.75″ h x 13.56″ d (dustcover down); 9.5 lb $230

TT-170 Semiautomatic Turntable
Belt drive turntable features front panel cueing; P-mount cartridge; 33.33/45 rpm; W&F 0.08% wrms; rumble −55 dB. 4.63″ h x 16.5″ w x 13.25″ d; 9.5 lb $100

MICRO SEIKI BY ANALOG EXCELLENCE

SZ-1T Manual Turntable
Massive zinc-alloy turntable system with vacuum hold-down; belt drive; 33.33 and 45 rpm; variable speed control; strobe; outboard air-bearing motor with high-inertia flywheel spindle; 44-lb bronze platter. W&F 0.025% wrms; S/N 90 dB A-wtd. 35″ w x 12″ h x 18″ d (dustcover down); 240 lbs $15,000
SZ-1TSS. Same as above with 48-lb steel platter, 2 tonearms, and isolation base. 260 lbs.. $20,000

SX-555FVW Manual Turntable
Belt-drive turntable with patented quadraplex isolation feet and vacuum hold-down; rosewood cabinet; 17-lb air-bearing bronze and aluminum duplex platter; 33.33 and 45 rpm; variable speed control. W&F 0.025% wrms; S/N 78 dB A-wtd. 21.5″ w x 7.5″ h x 17.5″ d (dustcover down); 47 lbs $2,495

SX-111FV Belt-Drive Turntable
Vacuum hold-down; air-bearing system; rosewood cabinet; 22-lb bronze platter; 33.33 and 45 rpm; variable speed control. W&F 0.0225% wrms; S/N 78 dB A-wtd $3,995

RX-1500VG Thread-Drive Turntable
20-lb bronze platter turntable with light-force vacuum record hold-down; 33.33 and 45 rpm; variable speed control; nonresonant zinc alloy frame and outboard motor; 4-lb sealed oil-bath center spindle. W&F 0.025% wrms; signal-to-noise ratio 85 dB A-weighted. 26″ w x 6.5″ h x 16″ d; 100 lbs $2,995
RX-1500FVG. Air-bearing version of above. 120 lbs $3,995

BL-99V Manual Turntable
Belt-drive turntable with light-force vacuum hold-down; walnut finished cabinet; 33.33 and 45 rpm; variable speed control; 7-lb aluminum platter; 4-lb tonearm base drilled to individuals' specifications. W&F 0.025% wrms; S/N 78 dB A-wtd. 21.5″ w x 7.5″ h x 17.5″ d (dustcover down); 35 lbs $1,795
BL-99VW. As above but with SAEC WE-407 tonearm $2,295

RX-1500 Basic Turntable
Belt-drive nonresonant zinc-alloy turntable with ability to mount 2 tonearms simultaneously. Features 33.33 and 45 rpm; variable speed control; aluminum platter. W&F 0.025 wrms; S/N 78 dB A-wtd. 19″ w x 6″ h x 13″ d; 40 lbs..... $1,495

NIKKO AUDIO

NP-750 Automatic Turntable
Fully automatic quartz-lock direct-drive turntable $240

P-5 Semiautomatic Turntable
Direct-drive semiautomatic turntable with 20-pole, 30-slot brushless DC 3-phase motor. Features die-cast aluminum platter; straight-line tonearm; ± 3% pitch control. W&F 0.085% wrms; rumble 38 dB weighted $200

P-3 Semiautomatic Turntable
Semiautomatic full-size belt-drive turntable with P-mount tonearm, repeat key, and manual damped cueing. W&F 0.045% $100

NP-550 Turntable
Belt-drive turntable with 4-pole synchronous motor $90

ONKYO

CP-1057FB Integra Automatic Turntable
Computer-controlled quartz-PLL direct-drive turntable. Features pivoted arm; strobe; 33.33 and 45 rpm; triple-stage isolation; floating subchassis on 3-point suspension; gimbal-support tonearm bearings; computer-controlled tonearm functions; separate motor for tonearm; 2-speed search; straight low-mass tonearm; Polysorb vibration absorbing compound for record mat and cabinet feet; gold-lacquered platter; gold-anodized tonearm; opto-electronic record-end detector; black finish. Remote control optional. W&F 0.023% wrms; rumble −80 dB; effective tonearm length 226 mm; max tracking error +3°, −1°. 17.44″ w x 6.25″ h x 16.12″ d; 20 lb $350

CP-1046FB Automatic Turntable
Computer-controlled direct-drive pivoted-arm turntable. Features PLL; quartz-lock; 33.33 and 45 rpm; 2-color quartz-lock indicator; triple-stage isolation system with floating subchassiss; 3-point subchassis suspension; computer-controlled motor-assisted tonearm; opto-electronic record-end detector; straight low-mass tonearm; gimbal-precision tonearm bearings; 2-speed search; black finish. Remote control optional. W&F 0.025% wrms; rumble −75 dB; effective tonearm length 224 mm; max tracking error +3°, −1.5°. 16.5″ w x 5.06″ h x 14.75″ d (dustcover down); 13 lb$230

CP-1036A Semiautomatic Turntable
Direct-drive pivoted-arm turntable. Features PLL; quartz-lock 33.33 and 45 rpm; triple-stage isolation with floating subchassis; front-panel controls; straight-line low-mass tonearm; gimbal-support precision tonearm bearings; balck finish with smoked dustcover. W&F 0.025% wrms; rumble −70 dB; effective tonearm length 224mm; max tracking error +3°, −1.5°. 16.5″ w x 5.06″ h x 14.75″ d (dustcover down); 12 lb $180

CP-116F Semiautomatic Turntable
Belt-drive truntable with auto-return and -reset controls. Features front-panel controls; straight-line low-mass tonearm; damped cueing. W&F

0.045% wrms; rumble −70 dB; effective tonearm length 210 mm; max tracking error +4.5°, −1°. 16.5″ w x 5.06″ h x 14.75″ d $110

RC-5T Wired Remote Control
Optional wired remote control that operates selected tape and phono functions with 14-ft cord. Features record; rewind; play; fast foward; stop; pause; repeat; search; cue; play/reject. For use with remote-compatible Onkyo turntables and cassette decks $55

ORACLE AUDIO

Premiere Mark III Manual Turntable
Belt-drive turntable without tonearm. Remote control power drive module, 33.33 and 45 RPM; variable-speed control; strobe; hi-torque DC motor; adjustable spring-suspension system; record-coupling system; tone arm cartridge protractor, strobe disc included. 20″ w x 6.5″ h x 15″ d; 42 lb $2,350
Gold Plated. Premiere Mark III aluminum and 24k gold plating $2,950

Delphi MK III Manual Turntable
Belt-drive turntable without tonearm. Features 33.33 and 45 RPM; hi-torque DC motor; adjustable spring-suspension system; record-coupling system; tonearm/cartridge protractor and strobe disc included. 19″ w x 6″ h x 14.″ d; 35 lb$1,395
Dephi Aluminum. Aluminum/24k gold plating $1,970
Delphi Black. 24k gold plating $2,295

Alexandria Mark III Manual Turntable
Belt-drive turntable without tonearm. Features 33.33 and 45 RPM; hi-torque DC motor; adjust-

PRICES LISTED
are manufacturers' suggested retail prices
(also referred to as *list* prices);
actual selling prices are set by individual dealers.
All prices are subject to change without notice.

able spring-suspension system; record-coupling system. 20" w x 6" h x 15" d $895

PARASOUND

T/FS-880 Semiautomatic Turntable
Belt-drive; floating suspension (motor separate from subchassis); P-mount compatible; die-cast platter; decoupled counterweight. W&F 0.025%; rumble −72 dB; effective tonearm length 222 mm; 17" w x 4" h x 14.25" d $200

TTb-720 Semiautomatic Turntable
Belt-drive; front-mounted controls; P-mount compatible; 33.33 and 45 rpm; variable speed control; strobe; pivoted straight arm; DC-servo motor; damped spring suspension isolated from bottom of base. W&F 0.05% wrms; rumble −65 dB; effective tonearm mass without cartridge 14 g; effective tonearm length 215 mm; max tracking error 1.6°. 16" w x 3.75" h x 12.75" d (dustcover down); 10 lb $130

PIONEER

PL-V70 Programmable Turntable
Automatic front-loading belt-drive programmable turntable. Features DC servomotor; dynamic resonance absorber; linear-tracking; 33.33 and 45 rpm; random program playback. Includes low-mass tonearm with Pioneer PC-291 cartridge. W&F 0.05% wrms. 16.56" w x 4.12" h x 13.75" d $300

PL-L550 Automatic Turntable
Direct-drive linear-tracking turntable with Stable Hanging Rotor. Features dynamic resonance absorber; T4P P-mount cartridge adaptor; Polymer Graphite straight tonearm; auto disc size selector; auto speed selector. W&F 0.025% wrms. 16.56" w x 4.25" h x 14.38" d $250

PL-670(BK) Automatic Turntable
Direct-drive turntable with Stable Hanging Rotor. Features dynamic resonance absorber; T4P P-mount cartridge adaptor; Polymer Graphite straight tonearm; auto disc size selector. W&F 0.025%. 4.62" h x 16.56" w x 14.38" d ... $150

PL-X505(BK) Automatic Turntable
Belt-drive turntable with Stable Hanging Rotor. Features linear-tracking tonearm; T4P P-mount PC-295T cartridge; up/down cueing; reapeat function. W&F 0.045%. 3.94" h x 14.19" w x 14" d $140

PL-570(BK) Automatic Turntable
Belt-drive turntable with Stable Hanging Rotor. Features DC servomotor; low-mass straight tonearm; T4P P-mount cartridge connector; dynamic resonance absorber;. W&F 0.05% wrms. 3.88" h x 16.56" w x 14.75" d $120

RCA

MT230 Linear Tracking Turntable
Dimensia turntable with remote-control operation and on-screen status indication when used with Dimensia monitor. Features belt-drive design; P-mount cartridge; programmable track selection; system record-protection logic; auto size and speed selection; cue muting. S/N 65 dB; W&F less than 0.06%. 14.63" w x 3.5" h x 14.25" d $249

REALISTIC

LAB-2200 Direct-Drive Turntable
Automatic linear-tracking turntable with Realistic/Audio-Technica dual-magnet P-mount cartridge, repeat button, straight tonearm, strobe, variable speed control, 33.33 and 45 rpm. W&F 0.065% wrms; rumble 62 dB DIN; effective tonearm length 132 mm $150

LAB 450 Semiautomatic Turntable
With Realistic/Shure MM cartridge; direct drive; neon strobe; straight tonearm; damped cueing; front-panel controls; 33.33 and 45 rpm; adjustable antiskating; rubber mat; 45 adaptor. Rumble −65 dB; W&F <0.05% $130

LAB-330 Turntable with Phono Preamp
Semiautomatic turntable with switchable stereo preamplifier for compatibility with MM inputs, ceramic phono inputs, or high-level tape or aux inputs. With Realistic/Audio-Technica cartridge; belt drive; neon strobe; pitch control; damped cueing; rubber mat; 45 adaptor; straight tonearm; electronically controlled DC motor; 33.33 and 45 rpm. Rumble −55 dB; W&F <0.1% $90
LAB-89. Similar to above except changer that stacks 4 records $80

REVOLVER BY MUSIC HALL

Revolver Belt-Drive Turntable
Split-plinth turntable with plinth and platter of medium-density fibreboard and self-damping material. AC synchronous motor with 2-speed stepped pulley; ethylene proylene drive belt; 3 molded nonadjustable feet. Includes Precision Instant Grip clamp, starmat, lubricating oil. With Revolver tonearm and Audio-Technica cartridge.
Redwood high-gloss finish $525
Black-ash veneer $475
Gray $450

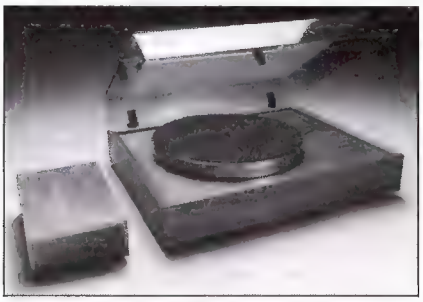
REVOX

B291 Linear-Tracking Turntable
Quartz-controlled direct-drive turntable with patented Revox Linatrack system. Features ultra-short linear-tracking tonearm; pitch control regulation of ± 9.9% in precise 0.1% steps, with LED display showing the variation; P-mount cartridge

adaptor; channel balance; auto start; front-panel-mounted controls; W&F <0.05%. 17.7" w x 5.6" h x 15.6" d; 20 lb $1,000

ROKSAN ENGINEERING

Xerxes Turntable Without Tonearm
Medite top platform; 2-piece single-point bearing designed to be self-centering and self-aligning; inner and outer platters of solid aluminum alloy;



spring-mounted revolving motor; felt mat; separate power supply in small box; 33.33 or 45 rpm; diamond-turned platter and pulley. 15" x 6" x 19".
Rosewood $1,665
White ash $1,585
Walnut or teak $1,530
Black ash $1,450

ROTEL

RP850 Belt-Drive Turntable
Pivoted-arm turntable features 33.33 and 45 rpm; 4-pole hysteresis synchronous motor. W&F 0.03% wrms; max tracking error +2.35 to −1.3°; signal-to-noise ratio 70 dB (DIN-B); 17" w x

5.31" h x 12.75" d $349

SANSUI

XP-99 Automatic Turntable
Silent-synchrotor quartz-servo programmable direct-drive truntable. Features pivoted arm; 33.33 and 45 rpm; quartz lock. W&F 0.012% wrms. 16.94" w x 6.81" h x 16.47" d (dustcover down); 20.3 lb $500

SCOTT

PS4004 Automatic Turntable
Belt drive; 33.33 and 45 rpm; soft-touch controls; integrated low-mass magnetic cartridge; pitch control with electronic strobe; frequency-governed DC servo motor; insulating feet; LED speed indicators; gold-plated output plugs. W&F 0.06% wrms; rumble −62 dB DIN B; 16.8 w x 5 h x 14.6 d (dustcover down) $200

PS59C Semiautomatic Turntable
33.33 and 45 rpm; P-mount arm and cartridge; pitch control with electronic strobe; frequency-governed DC servo motor; W&F 0.1% wrms; rumble −55 dB DIN B; 16.8 w x 4 h x 13.3 d

(dustcover down) $110

SHERWOOD

ST-887 Fully Automatic Direct-Drive Turntable
Digi-Link remote compatibility with other Sherwood products. P-mount cartridges; direct read-out stylus pressure indicator; DC servo motor; front panel access to controls; 33.3/45 rpm vari-

able pitch $180

ST-875 Semiautomatic Turntable
Belt-drive turntable with push-button cueing, auto reject, auto return, and DC-servo motor. Features pivoted arm; P-mount compatible; 33.33 and 45 rpm. W&F 0.08% wrms; effective tonearm length 225 mm; max tracking error +2.6°, −1°. 17.36" w x 4.88" h x 14.25" d; 11 lb $100

SONOGRAPHE BY CONRAD-JOHNSON

SG-3 Manual Turntable
Belt-drive turntable without tonearm. Tuned suspension, resonance-free polymer platter. W&F <0.02% wrms; rumble −65 dB; 18.25" w x 6.75" h x 14.5" d (dustcover down); 23 lbs $449

SONY

PS-FL7IIB Automatic Turntable
Front-loading linear-tracking automatic turntable. Features direct drive, PLL, quartz-lock, P-mount compatible; 33.33 and 45 rpm; remote control capability, stackable top. W&F 0.03%; S/N 75 dB; effective tonearm length 3"; max tracking error ± 0.1°; 16 lb $330

PS-LX520 Automatic Turntable
Fully automatic linear-tracking turntable. Features direct drive, PLL, quartz-lock, P-mount compatible, 33.33 and 45 rpm; gel-filled feet; remote control capable. W&F 0.035%; S/N 75 dB; effective tonearm length 3"inches; max tracking error ± 0.1°; 11 lb $230

PS-LX430 Automatic Turntable
Belt-drive P-mount turntable with pivoted arm. Features 33.33 and 45 rpm, cueing lever, anti-resonanse base, disc size selector, remote control capability. W&F 0.046%; rumble 70 dB ... $165

PS-LX230 Semiautomatic Turntable
Belt-drive turntable with pivoted arm. Features 33.33 and 45 rpm, cueing lever, anti-resonance base, disc size selector. W&F 0.045%; rumble 70 dB. 7.75 lb $130

SOTA INDUSTRIES

SOTA Sapphire Series III Turntable
Manual 2-speed belt-drive turntable with variable speed control and strobe. Heavyweight (22 lb) sub-assembly for maximum isolation; exclusive inverted bearing with sapphire disc; single piece (11 lb) platter, rim drive. W&F 0.02% wrms; rumble −84.5 dB; 20.5" w x 7.5" h x 16.25" d 44 lb; oak finish $975
African rosewood $1,075
STAR Series III Sapphire. As above with vacuum hold-down system: low-level pressure, continuous through play, adjustable vacuum. Includes acrylic vacuum supermat. All-wood top and speed control panel; heavy-duty dust cover, oak finish $1,600
Black lacquer $1,800
Ebony, Brazilian rosewood $1,900
Wood $1,900
African rosewood, walnut and cherry $1,750
Vacuum Acrylic Supermat. For Stars or vacuum Sapphires. Designed for optimal coupling, matched impedance, extreme damping $150
Acrylic Supermat. For all nonvacuum decks. Acrylic/Intermat system transfers energy from vinyl and damps fully, including platter ... $135
Acrylic Supermat. For Sapphire $100
Electronic Flywheel. A/C line conditioner for the Sapphire and Star turntables only. Isolates and regulates motor/drive from all outside interference (voltage shifts, EMI, RFI, hash) $300
Reflex Clamp. Couples record to platter (in conjunction with Supermat) with reflex action. One part grabs spindle while the second motion presses record against mat. Simple level action; aluminum casting; decoupled from record with spongy foam $95

Vacuum Conversion Kit
For Sapphire model: same vacuum system, same features as on STAR available as an upgrade for any Sapphire made. May be installed at factory on new Sapphire $695

SYSTEMDEK

Systemdek IV Turntable
Belt drive turntable w/33.33/45 rpm. Wow & flutter 0.06%; rumble −78 dB; pivoted tonearm; anti-skate adjustment; fixed cartridge mount; 19.5" x 15.75" x 6"; with tonearm $850
Without tonearm $699

Systemdek II X Turntable
Belt drive turntable w/33.33/45 rpm. Wow & flutter 0.08%; rumble −78 dB; pivoted tonearm; anti-skate adjustment; fixed cartridge mount; 18.75" x 14.5" x 5.5". With tonearm $459
Without tonearm $299

TECHNICS

SL-M3 Automatic Direct-Drive Turntable
Features 33.33- and 45-rpm; quartz lock PLL; P-mount; variable speed; strobe. W&F 0.008% wrms; rumble −82 dB; effective tonearm length 238 mm; max tracking error within ± 0.05%; 33.1 lbs $585

SL-1200MKII Direct-Drive Disco Turntable
Quartz-controlled 33.33- and 45-rpm manual turntable. Features ± 8% quartz-locked pitch control; quick start and stop; pop-up stylus light; gimbal-suspended tonearm with height adjustment; brushless DC motor; aluminum die-cast cabinet; W&F 0.025% $480

SL-M2 Manual Direct-Drive Turntable
Quartz-locked P-mount turntable; 33.33 and 45 rpm, variable speed control with optical sensor for end-of-record pickup. W&F 0.008% wrms; rumble −82 dB; 17.8" w x 6.7" h x 16.2" d; 26.5 lb $460

SL-MA1 Automatic Direct-Drive Turntable
Features PLL quartz lock; P-mount; 33.33 and 45 rpm. W&F 0.012% wrms; rumble −80 dB; effective tonearm length 230 mm; max tracking error +0° 32' at inner groove and +2°32' at outer groove; 19.8 lbs $400

SL-J33 Programmable PLL Turntable
Direct-drive automatic P-mount turntable allows up to 8 tracks to be played in any order. Indicates number of tracks on album side and which track is playing. Remote controlled through some Technics receivers. Features linear tracking; quartz lock; 33.33 and 45 rpm; front-panel feather-touch controls; cueing; auto stylus muting. W&F 0.012%; rumble −78 dB; 9 lbs $240

SL-L20 Automatic Linear-Tracking Turntable
Belt-drive P-mount turntable can be operated by remote control through some Technics receivers. Features front-panel soft-touch controls; cueing; 2-speed search; auto disc-size/speed detection to prevent tonearm from lowering on empty mat; 33.33 and 45 rpm. W&F 0.045% wrms; rumble −70 dB; 8 lbs $190

SL-QD33 Automatic Direct-Drive Turntable
Can be operated by remote control through some Technics receivers. P-mount; 2 motors to avoid mechanical linkages between tonearm and platter-drive motor; end-of-disc detection; electronic feather-touch front-panel controls; ultra-low-speed brushless DC motor for platter drive; 33.33 and 45 rpm; pivoting arm; quartz lock; strobe. W&F 0.012% wrms; rumble −78 dB; max tracking error ± 2°; 10 lbs $190

SL-J11D Linear-Tracking Turntable
Belt-driven automatic P-mount turntable; 33.33 and 45 rpm; electronic feather-touch controls; cueing; auto-disc-detection system to prevent lowering of tonearm on empty mat; TNRC anti-vibration cabinet. W&F 0.045% wrms; rumble −70 dB; 7.5 lbs $180

SL-QD22 Semiautomatic P-Mount Turntable
Direct-drive turntable with 2 motors to avoid mechanical linkages between tonearm and platter-drive motor; end-of-disc detection; ultra-low-speed DC brushless motor; pivoting arm; PLL quartz lock; strobe; 33.33 and 45 rpm; front-panel electronic feather-touch controls. W&F 0.012% wrms; rumble −78 dB; effective tonearm mass 7.5 g, length 230 mm; max tracking error ± 2°. 17" w x 4.5" h x 14.75" d $170

SL-BD1 Manual P-Mount Turntable
Belt-drive turntable with variable speed control; strobe; 33.33 and 45 rpm. W&F 0.045% wrms; rumble −70 dB; effective tonearm mass without cartridge 7.5 g, length 230 mm; max tracking error +0° 32' at inner groove and +2° 32' at outer groove; 7.1 lbs $125

SL-BD10 Manual P-Mount Turntable
Belt-drive turntable with aluminum die-cast full-gimbal pivot with highly rigid lightweight aluminum tonearm. Features front-panel cueing control; TNRC vibration-isolation base; pivoted arm; 33.33 and 45 rpm. W&F 0.45% wrms; rumble −70 dB DIN B; max tracking error +2° ... $100
SL-BD22K. As above; semiautomatic $120

SH-100 Plug-In Headshell
Aluminum die-cast universal plug-in headshell with calibrated overhang cursor and gold-plated contacts for Technics tonearms $16

Turntables Without Tonearms

SP-10MK3 33/45/78-rpm Turntable
Quartz-synthesizer direct-drive turntable with high torque for full speed in 30° of rotation; electronic, mechanical braking for speed change in 0.3 sec; high-precision integral rotor-platter quartz motor; quartz-locked pitch control (0.1% steps to ± 9.9% all speeds). Separate power supply in remote-control unit with numeric LED speed, pitch displays. W&F 0.015% ± 0.001% $2,500
SH-10B5. Optional turntable base $1,000

SP-10MK2A 33/45/78-rpm Turntable
Quartz-synthesizer direct-drive turntable with high torque for full speed in 25° of rotation; electronic, mechanical braking for speed change in 0.3 sec; separate power supply, remote-control unit. W&F 0.025% wrms ± 0.035%; rumble −70 dB DIN-B $1,300
SH-10B3. Optional base $620

SP-15 33/45/78-rpm Turntable
Quartz-synthesized direct-drive turntable reaches full speed in 0.4 sec (40° of rotation); stops in 0.4 sec (40° of rotation) at 33.33 rpm; ± 9.9% quartz-locked pitch control. W&F 0.025% wrms; rumble 56 dB DIN-A, 78 dB DIN-B $870
SP-25. Similar to SP-15 except no 78-rpm speed, ± 6% pitch control $500
SH-15B2. Heavy acoustic rubber base with simulated wood for SP-25 and SP-15 ..... $330
SH-15B3. Similar to SH-15B2 except heavy acoustic rubber base only $330

(Continued on page 135.)

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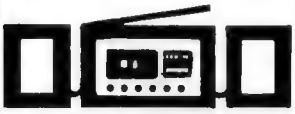

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PANASONIC PORTABLES
RX-FD80 AM/FM, Cassette W/CD. **$305.00**
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CDP-21 . . . . . **$199.95**

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ACCUPHASE BY MADRIGAL

AC-2 MC Phono Cartridge
Stiff, low-mass tubular sapphire cantilever; damped damper; rare-earth samarium-cobalt magnet; permalloy core; large-diameter coil wire; die-cast aluminum alloy hard housing. Sep 30 dB at 1 kHz; output 0.18 mV at 1 kHz, 5 cm/sec; tracking force 1.0-3.0 g $750

AC-3 MC Phono Cartridge
Tubular boron and beryllium rod cantilever; microtrack stylus, rare-earth samarium-cobalt magnet, die-cast aluminum alloy hard housing. Output 0.2 mV at 5 cm/sec; FR 20-20,000 Hz ± 1 dB; sep 30 dB at 1,000 Hz; tracking force 1.5-2.0 g; cartridge weight 7.5 g $610

ADC

TRX 3 Phono Cartridge
Induced-magnet cartridge with line-contact nude rectangular diamond stylus; precision die-cast metal body; ultra-rigid beryllium cantilever; screw-down lock stylus system mount. FR 20-26,000 Hz ± 1 dB; recommended tracking force 1.2 g ± 0.2 g; output voltage 3 mV (5 cm/sec at 1 kHz); ch balance within 0.5 dB (1 kHz); ch sep >30 dB (1 kHz); compliance 40 x 10^{-6} cm/dyne static; imp 3.9 ohms (1 kHz); CD resistance 650 ohms; load resistance 47 kilohms; load capacitance 275 pf; weight 8 g; stylus tip nude PH line contact; 0.12 x 0.06 x 0.05 (vital III) $300

TRX 1 Phono Cartridge
Induced-magnet cartridge with line-contact nude diamond stylus; precision die-cast metal body; screw down lock stylus system mount; titanium beryllium cantilever. FR 20-24,000 Hz ± 1 dB; recommended tracking force 1.2 g ± 0.2 g; output voltage 3 mV (5 cm/sec at 1 kHz); ch balance within 1 dB (1 kHz); ch sep >30 dB (1 kHz); compliance 40 x 10^{-6} cm/dyne static; imp 3.9 ohms (1 kHz); DC resistance 650 ohms; load resistance 47 kilohms; load capacitance 275 pf; weight 8 g; stylus tip nude PH line contact 0.3 x 0.22 x 0.5 (vital I) $225

PSX-40 Phono Cartridge
Induced-magnet cartridge with P-mount adaptor so cartridge is usable for both conventional and P-mount tonearms. Features 0.2 x 0.7 mil nude diamond stylus, tapered titanium tube cantilever. FR 20-24,000 Hz; tracking force 1.25 ±0.2 g; weight 5.9 g (7.2 g with adaptor) $135

PSX-30 Phono Cartridge
Induced-magnet cartridge with P-mount adaptor so cartridge is usable in both conventional and P-mount tonearms. Features 0.3 x 0.7 mil nude diamond stylus; aluminum tapered cantilever. FR 20-22,000 Hz; tracking force 1.25 ± 0.2 g; weight 5.9 g (7.2 g with adaptor) $110

PSX-20 Phono Cartridge
Induced-magnet cartridge with P-mount adaptor so cartridge is usable in both conventional and P-mount tonearms. Features 0.3 x 0.7 mil bonded elliptical diamond stylus; aluminum cantilever. FR 20-20,000 Hz; tracking force 1.5 ± 0.2 g. $90

PSX-10 Phono Cartridge
Induced-magnet cartridge with P-mount adaptor so cartridge is usable for in conventional and P-mount tonearms. Features bonded conical diamond stylus, 0.7 mil; tubular aluminum cantilever. FR 20-18,000 Hz; tracking force 1.25 ± 0.2 g; weight 5.9 (7.2 g with adaptor) $60

ADCOM

SXC-van den Hul MC Phono Cartridge
High-output MC cartridge with tubular sapphire cantilever and van den Hul stylus. Features 3.5-micron contact radius; vertical groove extended to 85 microns; aluminum cantilever; crosscoil armature. Output 2.3 mV at 5 cm/s; FR 20-20,000 Hz +3, -0 dB;tracking force 1.8 g; square-wave rise time 7 ms; ch sep 20 dB; 4.7g..... $500

XC-MRII Moving-Coil Phono Cartridge
High-output MC cartridge with nude-mounted square-shank stylus. Features thin-walled aluminum cantilever; crosscoil armature. Output 2.3 mV at 5 cm/s; FR 20-20,000 Hz ± 1 dB; ch sep 28 dB at 1 kHz; tracking force 1.8 g; effective tip mass 0.35 mg; 0.15 mil x 3.0 mil scanning radius; weight 4.7 g $360

XC-LTII Moving-Coil Phono Cartridge
High-output MC cartridge with Line-Trace stylus, thin-wall aluminum cantilever, crosscoil armature. Output 2.3 mV at 5 cm/sec; FR 20-20,000 Hz ± 1 dB; ch sep 28 dB at 1 kHz; tracking force 1.8 g; tip mass 0.35 mg; weight 4.7 g $290

HC-vdH II Moving-Coil Phono Cartridge
High-output MC cartridge with van den Hul stylus. Features thin-wall aluminum cantilever; crosscoil armature. Output 2.3 mV at 5 cm/s; FR 20-15,000 Hz +1.5/−1 dB, 20-20,000 Hz +2.5/−1 dB; ch balance within 1.5 dB; tracking force 2 g; effective tip mass 0.35 mg; 4.7g $250
HC-E II. Similar to HC-VDH II except with elliptical stylus $160

AKG ACOUSTICS

P100LE Phono Cartridge
Hand-made cartridge using the patented Transverse-Suspension, Tapered Beryllium Cantilever. Features analog-6 stylus; adjustable vertical tracking angle; 5 year warranty; limited edition. Moving-iron cartridge $1,000
P100LE-vdH. Same as P100LE except stylus is a van den Hull II type $1,000

Super Nova P8ES Phono Cartridge
Moving-iron cartridge with patented transversal suspension system with the new van den Hul II replaceable diamond. Features FR/crosstalk curve; carbon-fiber stylus brush; screwdriver. Output 2.8 mV at 3.54 cm/sec; FR 10-28,000 Hz ± 1 dB; sep 30 dB at 1,000 Hz; tracking force range 1-1.5 g; cartridge weight 3.5 g $450

P-25S Phono Cartridge
Variable-reluctance, induced-magnet cartridge with patented diamond-technology transverse-suspension system, cylindrical/magnet design. Features FR/crosstalk curve; carbon-fiber stylus brush; screwdriver; antiresonance compound. Output 2.7 mV at 3.54 cm/sec rms; FR 10-28,000

Hz; sep ± 1 dB; tracking-force range 0.75-1.25 g; "Analog-Six" stylus mass 0.015 mg; 3.5 g . $250

P-15S Phono Cartridge
Variable-reluctance, induced-magnet cartridge with patented diamond-technology transverse-suspension system, cylindrical magnet. Features FR/crosstalk curve; carbon-fiber stylus brush; screwdriver, antiresonance compound. Output 3.4 mV rms at 3.54 cm/sec; FR 10-23,000 Hz; sep ± 1.5 dB; tracking force 1.0-1.5 g; elliptical diamond stylus; stylus mass 0.018 mg; 3.5 g.. $165

P10ED Studio Phono Cartridge
Designed for broadcast and disco; built-in stylus guard prevents damage during use. Output 5.8 mV at 3.54 cm/sec; FR 20-20,000 Hz ± 2 dB; sep 25 dB at 1,000 Hz; tracking force range 2.5-4.5 g; cartridge weight 3.5 g $120

P-10S Phono Cartridge
Variable-reluctance, induced-magnet cartridge with patented transverse suspension, cylindrical magnet. Features carbon-fiber stylus brush; screwdriver; antiresonance compound. Output 5.8 mV rms at 3.54 cm/sec; FR 20-20,000 Hz; sep ± 2dB; tracking force 1.25-2.0 g; elliptical diamond stylus; stylus mass 0.25 mg; 3.5 g... $115

P-5ED Phono Cartridge
Variable-reluctance, induced-magnet cartridge with patented transverse suspension, cylindrical magnet. Features compatability with automatic turntables, record changers; elliptical diamond stylus. Output 5.8 mV rms at 3.54 cm/sec; FR 20-20,000 Hz; tracking force 1.5-2.O g $80

P4 Phono Cartridge
Standard 0.5"-mount cartridge designed for heavy/medium heavy tonearms. FR 20-20,000 Hz; sep 20 dB at 1,000 Hz; tracking force 1.5 g; cartridge weight 3.5 g $50
P4DP. As above; standard TP4 mount $50

ANDANTE BY SUMIKO

S Phono Cartridge
Micro-mass cartridge with aluminum-alloy tubular cantilever; 0.5-mil polished bonded-diamond spherical stylus; hand-wound coils. Output 5.0 mV; FR 18-27,000 Hz; sep 28 dB at 1 kHz compliance 18 x 10^6 cm/dyme; tracking force 1-2.5 g; input imp 47k ohms; 6 g $39
H. Similar to S except output 10 mV; FR 18-23,000 Hz; sep 27 dB at 1 kHz; compliance 15 x 10^6 cm/dyne $27

HSP MM Phono Cartridge
Output 6 mV at 3.54 cm/sec; FR 18-25,000 Hz; sep 28 dB at 1,000 Hz; tracking force 1-2 g; cartridge weight 6 g $34

P-76 MM Phono Cartridge
Hand-wound coils; square-shank nude-mount with tapered line-contact diamond stylus. Output 2.5 mV at 3.54 cm/sec; FR 8-45,000 Hz ± 3 dB; sep 30 dB at 1,000 Hz; tracking force 1-1.5 g; cartridge weight 5.9 g $59

APATURE BY ACR

Koce MC Phono Cartridge
High-output MC cartridge with 0.3 x 0.7 mil man-made flawless nude elliptical diamond mounted on a tapered cantilever. Output 3.2 mV (1 kHz/50 mm/sec); output balance at 1,000 Hz within 1 dB; sep at 1,000 Hz 25 dB; DC resistance 120 ohms; imp 120 ohms; vertical tracking angle 20°; compliance 10 x 10^{-6} cm/dyne; tracking force 2 ± 0.3 g; cartridge weight 4.2 g . $200

Blue Phono Cartridge
MC cartridge with samarium-cobalt magnet for 3.2-mV output. Snap-apart body for user-replaceable MC section with stylus. Elliptical stylus; aluminum cantilever. Output 3.2 mV at 100,000 Hz at 5 cm/s; FR 15-40,000 Hz ± 3 dB; sep 25 dB at 1,000 Hz; tracking-force range 2 ± 0.3 g; cartridge weight 4.2 g; scanning radius 0.3 x 0.07 mm; vertical tracking angle 20° $100
Maui. Replacement stylus $60
Panama. Similar to Blue but MM and P-mount with adaptor $60
Replacement Stylus. $30

ASTATIC

Moving Flux Series
MF 100. Output 3.5 mV at 5 cm/sec; FR 10-20,000 Hz ± 1 dB; sep 25 dB at 1 kHz; tracking force 0.75-1.25 g; Shibata parabolic stylus; compliance 50 x 10^{-6} cm/dyne $290
MF 200. Output 4.2 mV at 5 cm/sec; FR 10-20,000 Hz ± 2 dB; sep 23 dB at 1 kHz; tracking force 1.5-2 g; Shibata parabolic stylus; compliance 45 x 10^{-6} cm/dyne $160
MF 300. Output 4.2 mV at 5 cm/sec; FR 10-20,000 Hz ± 2.5 dB; sep 20 dB at 1 kHz; tracking force 1.5-2.0 g; elliptical diamond stylus; compliance 35 x 10^{-6} cm/dyne $100
MF 400. Output 3.5 mV at 5 cm/sec; FR 10-18,000 Hz ± 3 dB; sep 20 dB at 1 kHz; tracking force 1.5-2.5 g; spherical diamond stylus; compliance 35 x 10^{-6} cm/dyne $80

Induced-Magnet Series
IM-10E. User-replaceable, 0.3 x 0.7-mil elliptical diamond stylus. Output 4.1 mV at 5 cm/sec; FR 10-20,000 Hz ± 2.5 dB; sep 22 dB at 1,000 Hz; tracking force 1.5-2.5 g; cartridge weight 7.5 g; compliance 35 x 10^{-6} cm/dyne $52
IM-25P. P-mount; user-replaceable spherical diamond stylus. Output 4.2 mV at 5 cm/sec; FR 20-20,000 Hz ± 3 dB; sep 20 dB at 1,000 Hz; tracking force 1-1.5 g; cartridge weight 5.9 g; compliance 30 x 10^{-6} cm/dyne $50
IM-10. User-replaceable diamond stylus. Output 4.2 mV at 5 cm/s; FR 10-20,000 Hz ± 3 dB; sep 20 dB at 1,000 Hz; tracking force 2.0-2.5 g; cartridge weight 7.5 g; compliance 30 x 10^{-6} cm/dyne $40

AUDIO-TECHNICA

Dual Moving-MicroCoil Series
AT35E Phono Cartridge
Cartridge with user-replaceable Moving MicroCoil stylus assembly. Features low-mass design; 0.2 x 0.7-mil nude-mounted BiRadial square-shank diamond stylus. Output 0.4 mV at 5 cm/sec; ch balance/sep 0.5/30 dB at 1 kHz; tracking force 1.2-1.8 g $295

AT31E Phono Cartridge
Cartridge with user-replaceable Moving MicroCoil stylus assembly. Features square-shank 0.2 x 0.7-mil biradial diamond stylus. Output 0.4 mV at 5 cm/sec; ch balance/sep .59 dB at 1 kHz; tracking force 1.21-1.8 g $195

AT30E Phono Cartridge
Dual moving MicroCoil model with user replaceable stylus assembly and 0.3 x 0.7 mil BiRadial stylus. Features thin-wall tube cantilever. Output 0.3 mV at 5 cm/sec; sep 25/15 dB at 1,000 Hz; tracking-force range 1.4-2 g; cartridge weight 5 g. Recommended load imp 10-20 ohms $150

AT30HE Phono Cartridge
Stereo cartridge with user-replaceable Moving MicroCoil stylus assembly. High output eliminates need for transformer; 0.3 x 0.7-mil nude-mounted diamond stylus. Output 2 mV; sep 29 dB at 1 kHz; tracking-force 1.4-1.8 g $150

AT 312EP Phono Cartridge
Universal-mount MC cartridge with user-replaceable stylus. Dual moving MicroCoil™. output 0.4 mV at 5 cm/sec; sep 30 dB at 1 kHz; tracking-force range 1-1.5 g; cartridge weight 6 g. Comes with .5" mounting adapter $175

Vector-Aligned Series
AT160ML Phono Cartridge
Paratoroidal-coil MM cartridge with Microline™ stylus mounted on gold-plated beryllium cantilever. Output 5 mV at 5 cm/sec. sep 31 dB at 1 kHz; tracking-force range 0.8-1.8 g; 8.1 g . $295
ATN 160 ML. Replacement stylus $125

AT155LC Vector-Aligned Phono Cartridge
Output 5.0 mV at 5 cm/sec at 1 kHz; FR 5-35,000 Hz with class I tolerance; ch balance/sep 0.5/31 dB at 1 kHz; tracking force 0.8-1.6 g; nude-mounted square-shank linear-contact stylus; beryllium cantilever; Vector-Aligned dual magnet; para-toroidal coil $250
ATN155LC. Replacement stylus $100

AT140ML Vector-Aligned Phono Cartridge
Output 5.0 mV at 5 cm/sec; FR 5-32,000 Hz with class II tolerance; ch balance/sep 0.75/30 dB at 1 kHz; tracking force 0.8-1.8 g; nude-mounted square-shank MicroLine™ stylus; Vector-Aligned dual magnet; para-toroidal coil $195
ATN140ML. Replacement stylus $75

AT130E Vector-Aligned Phono Cartridge
Para-toroidal coil construction; output 5.0 mV at 5 cm/sec; FR 10-30,000 Hz with class II tolerance; ch balance/sep .75/30 dB at 1 kHz; 0.2 x 0.7 mil nude biradial stylus $135
ATN130E. Replacement stylus $50

AT125LC Vector-Aligned Phono Cartridge
Para-toroidal coil construction; output 5.0 mV at 5 cm/sec; FR 15-28,000 Hz with class II tolerance; ch balance/sep .59 dB at 1 kHz; linear-contact titanium-bonded stylus $150
ATN125LC. Replacement stylus $60

AT120E Vector-Aligned Phono Cartridge
Para-toroidal coil construction; output 5.0 mV at 5 cm/sec; FR 15-25,000 Hz with class II tolerance; ch balance/sep .59 dB at 1 kHz; tracking force 1-1.8 g; Vector-Aligned dual magnet; 0.3 x 0.7-mil BiRadial nude-mounted diamond stylus $95
ATN120E. Replacement stylus $45

AT110E Phono Cartridge
Output 4.5 mV at 5 cm/sec; ch sep 26 dB at 1 kHz; tracking force 1-2 g; 0.4 x 0.7-mil BiRadial bonded diamond stylus $70
ATN110E. Replacement stylus $35

AT105 Phono Cartridge
Output 4.5 mV at 1 kHz; tracking force 1.5-2.5g; ch sep 26 dB at 1 kHz; 0.7-mil UniRadial bonded diamond stylus; dual magnet $55
ATN105. Replacement stylus $30

P-Mount Series
AT231LP Phono Cartridge
Universal-mount MM cartridge with linear-contact stylus. Output 3.5 mV at 5 cm/sec. sep 31 dB at 1 kHz; tracking-force range 1-1.5 g; cartridge weight 6 g; 0.5" mounting adapter $145

AT221EP Phono Cartridge
Universal-mount MM cartridge with square-shank 0.2 x 0.7 mil biradial stylus; output 5 mV at 5 cm/sec. sep 31 dB at 1 kHz; tracking-force range 1-1.5 g; weight 6 g; 0.5" adapter $135

AT216EP Phono Cartridge
Universal-mount MM cartridge with 0.3 x 0.7 mil biradial stylus; output 5 mV at 5 cm/sec. sep 29 dB at 1 kHz; tracking-force range 1-1.5 g; cartridge weight 6 g; 0.5" mounting adapter.. $100

AT211EP Phono Cartridge
Universal mount MM cartridge with 0.4 x 0.7 mil biradial stylus; output 5 mV at 5 cm/sec. sep 29 at 1 kHz; tracking-force range 1-1.5 g; cartridge weight 6 g; 0.5" mounting adapter $75

AT201EP Phono Cartridge
Universal mount MM cartridge with 0.4 x 0.7 mil biradial stylus; output 5 mV at 5 cm/sec. sep 26 dB at 1 kHz; tracking-force range 1-1.5 g; cartridge weight 6 g; comes with 0.5" mounting adapter $65

AT201P Phono Cartridge
Universal-mount MM cartridge with 0.6 mil uniradial stylus; output mV 5 cm/sec. sep 26 dB at 1 kHz; tracking-force range 1-1.5 g; cartridge weight 6 g; 0.5" mounting adapter $55

AT152MLP Phono Cartridge
Direct-plug-in cartridge for P-mount turntables. Features extremely stiff but lightweight beryllium cantilever and nude-mounted square-shank MicroLine™ diamond stylus $250

AT132EP Phono Cartridge
Direct plug-in cartridge for P-mount turntables. Features Vector-Aligned dual-magnet system with tapered alloy cantilever; 0.2 x 0.7-mil nude-mounted biradial diamond stylus..... $150

AZDEN

GM-P5L Phono Cartridge
P-mount MC cartridge with Nude line-contact stylus and boron cantilever. Output 0.2 mV at 5 cm/sec; sep 30 dB at 1,000 Hz; tracking force range 1-1.5 g; cartridge weight 5.9 g $250

YM-P50VL Moving-Magnet Phono Cartridge
MM cartridge with Vital Nude line-contact stylus and tapered aluminum cantilever. Output 4 mV at 5 cm/sec; sep 30 dB at 1,000 Hz; tracking force range 1-1.5 g; cartridge weight 5.9 g $150

GM-1E Moving-Coil Phono Cartridge
MC cartridge. Output 2 mV at 5 cm/sec; sep 28 dB at 1,000 Hz; tracking force range 1.5-2.5 g; cartridge weight 2.7 g $125

YM-10VE Moving-Magnet Phono Cartridge
MM cartridge with 0.3 x 0.7 mil Vital elliptical stylus. Output 4.5 mV at 5 cm/sec; sep 26 dB at 1,000 Hz; tracking force range 1.5-2.5 g; cartridge weight 4.5 g; ch bal 1.5 dB at 1,000 Hz $90

YM-P50E Moving-Magnet Cartridge
Universal mount cartridge with aluminum tube cantilever and 0.3 x 0.7 mil elliptical stylus. Output 4 mV at 5 cm/sec; channel sep min 28 dB at 1,000 Hz; t-force 1.25 g; weight 5.9 g $90

YM-10E Moving-Magnet Phono Cartridge
MM cartridge with 0.3 x 0.7 mil STD elliptical stylus. Output 4.5 mV at 5 cm/sec; sep 24 dB at 1,000 Hz; tracking force range 1.5-2.5 g; cartridge weight 4.5 g $70

YM-P20E Moving Magnet Phono Cartridge
Universal mount cartridge with o.3 x 0.7 mil stylus. Output 4 mV at 5 cm/sec; sep 24 dB; tracking force 1.25+ g; cartridge weight 5.9 g ... $70

YM-10C Moving-Magnet Phono Cartridge
MM cartridge with 0.65 mil conical stylus. Output 4.5 mV at 5 cm/sec; sep 22 dB at 1,000 Hz; tracking force 1.5-2.5 g; weight 4.5 g..... $60

YM-P50C Moving-Magnet Phono Cartridge
MM cartridge with 0.65 mil conical stylus. Output 4 mV at 5 cm/sec; sep 24 dB at 1,000 Hz; tracking force range 1.25-1.5 g; cartridge weight 5.9 g; ch bal 1.5 dB at 1,000 Hz $60

BANG & OLUFSEN

MMC Series Phono Cartridges
All MMC cartridges feature armature mounted perpendicularly to the cantilever; crystal sapphire cantilever; multi-radial diamond; four high-output, low-imp coils wound on cores of very low permeability aligned in perfect symmetry with the magnet.
MMC-1. Diamond contact line 0.1 × 0.1 mm sqr.; stylus bonding nude; cantilever sapphire tube; recommended tracking force 10 mN/1 gram; FR 20-20,000 Hz ± 1 dB; 1.6 g $445
MMC-2. Diamond contact line 0.12 × 0.12 mm sqr.; stylus bonding nude; cantilever sapphire tube; recommended tracking force 10 mN/1 g; FR 20-20,000 Hz ± 1.5 dB; 1.6 g $295
MMC-3. Diamond elliptical 0.15 × 0.15 mm sqr.; stylus bonding nude; cantilever tapered aluminum tube; recommended tracking force 10 mN/1 g; FR 20-20,000 Hz ± 2 dB; 1.6 g $195
MMC-4. Diamond elliptical 0.20 mm round; stylus bonding titanium; cantilever tapered aluminum tube; recommended tracking force 12 mN/1.2 g; FR 20-20,000 Hz ± 2.5 dB; 1.6 g.... $115
MMC-5. Diamond elliptical 0.25 mm round; stylus bonding titanium; cantilever tapered aluminum tube; recommended tracking force 15 mN/1.5 g; FR 20-20,000 Hz± 3 dB; 1.6 g $65

CELLO

Maestro MC Cartridge
Designed to make records sound like master tapes $2,000

Chorale MC Cartridge
Aluminum-alloy cantilever with elliptical stylus. weight 13 g..... $800

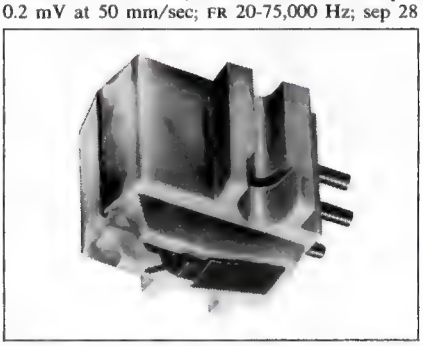
DENNESEN ELECTROSTATICS

ABLT-1 Tonearm
Air-bearing lateral-tracking tonearm includes air pump. Entire armtube removable; any range desired. Stylus overhang 0 mm; overall length and effective length vary (user adjustable); tracking error 0°; 1.5 lb.....$1,450

DENON

DL-1000 MC Phono Cartridge
Output 0.12 mV at 50 mm/sec; FR 20-110,000 Hz; sep 30 dB at 1,000 Hz; tracking-force range 0.8-0.1 g; cartridge weight 60 g $859

DL-305 MC Phono Cartridge
Features twin radius; baron cantilever. Output 0.2 mV at 50 mm/sec; FR 20-75,000 Hz; sep 28



dB at 1,000 Hz; tracking-force range 1.2-0.2 g; cartridge weight 5.8 g $559

DL-304 MC Phono Cartridge
Moving-coil phono cartridge features baron cantilever; high compliance $395

DL-302 MC Phono Cartridge
Features high output; detail, charm and depth; baron cantilever. Output 0.25 mV at 50 mm/sec; FR 28-70,000 Hz; separation 28 dB at 1,000 Hz; tracking-force range 1.4-0.2 grams; cartridge weight 6.0grams..... $260

DL-301 MC Phono Cartridge
Output 0.3 mV at 50 mm/sec; FR 20-60,000 Hz; sep 28 dB at 1,000 Hz; tracking-force range 1.4-0.2 g; cartridge weight 4.7 g..... $160

DL-160 MC Phono Cartridge
Output 1.6 mV at 50 mm/sec; FR 20-50,000 Hz; sep 28 dB at 1,000 Hz; tracking-force range 1.6-0.3 g; cartridge weight 4.8 g..... $115

DL-110 MC Phono Cartridge
Output 1.6 mV at 50 millimeters per seconds; FR 20-45,000 Hz; separation 25 dB at 1,000 Hz; tracking-force 1.80-0.30 g; weight 4.8 g $85

DL-80 MC Phono Cartridge
Output 1.6 mV at 50 mm/sec; FR 20-45,000 Hz; sep 20 dB at 1,000 Hz; tracking-force range 1.8-0.3 grams; weight 4.5 grams..... $60

DIGITRAC BY ORTOFON

300SE Phono Cartridge
Variable Magnetic Shunt cartridge with aluminum cantilever and nude fine-line diamond stylus. Output 4 mV at 5 cm/sec; FR 20-30,000 Hz; sep 24 dB at 1,000 Hz; high compliance 35um/mn; tracking force 1-1.5 g; weight 6 g $200

200NE Phono Cartridge
Variable Magnetic Shunt cartridge with aluminum cantilever and elliptical nude diamond stylus. Output 4 mV at 5 cm/sec; FR 20-25,000 Hz; sep 22 dB at 1,000 Hz; high compliance 30 μm/mN; tracking force 1.25-1.75 g; weight 6 g $140

100E Phono Cartridge
Variable Magnetic Shunt cartridge with aluminum cantilever and elliptical diamond stylus. Features dedicated P-Mount with universal application. Output 4 mV at 1,000 5cm/sec; FR 20-20,000 Hz; sep 20 dB at 1,000 Hz; high compliance 24 μm/mN; tracking force range 1.25-1.75 g; cartridge weight 6 g $100

190S Moving-Magnet Cartridge
Variable Magnetic Shunt cartridge with elliptical stylus and universal mount. output 3.5 mV at 5 cm/sec; FR 20-20,000 Hz ± 3 dB; sep 20 dB at 1,000 Hz; tracking-force range 1.25-1.75 g; cartridge weight 6 g $60

EMINENT TECHNOLOGY

Model 2 Straight Tonearm
Straight-line-tracking, air-bearing tonearm with adjustable VTA/SRA over an arc while playing record. Airpump included. Adjustable height; interchangable arm tube with preset geometry; decoupled counterweight in horizontal plane; interchangable preset counterweights. Headshell and tonearm manufactured as 1 piece. Tracking-force range 0-5 g; effective mass 5-20 g vertical, 20-30 g horizontal. Overall length 290 mm; effective length 180 mm; 400 g $850

ENTRE BY ANALOG EXCELLENCE

MC-9 Sapphire MC Phono Cartridge
Low-mass samarium-cobalt magnet; sapphire cantilever; 0.3-x-0.8 mil stylus. Output 0.25 mV at 5 cm/sec; FR 20-30,000 Hz ± 2 dB; sep >26 dB at 1,000 Hz; tracking force 1.6-1.9 g; imp 3 ohms; cartridge weight 5.9 g $395

MC-5 Boron MC Phono Cartridge
Boron cantilever; high-flux-density samarium-cobalt magnet. Output 0.25 mV at 5 cm/sec; FR 20-30,000 Hz ± 3; sep 26 dB at 1,000 Hz; tracking force 1.6-1.9 g; imp 3 ohms $295

MC-1 Basic MC Phono Cartridge
Double-wound coils; vital nude diamond stylus. Output 0.5 mV at 5 cm/sec; FR 20-30,000 Hz ± 3 dB; sep 22 dB at 1,000 Hz; tracking force 1.8-2 g; cartridge weight 5.9 g; imp 3 ohms..... $195

EPOCH BY STANTON

Epoch II Series Model HZ9S Cartridge
MM cartridge has output of 0.8 mV. FR 10-25,000 Hz, individually calibrated to 20,000 Hz; sep 35 dB at 1,000 Hz, 22 dB at 10,000 Hz; tracking-force .75-1.5 g; cartridge weight 4 g. With Stereohedron II stylus..... $250

LZ9S Low Impedance Phono Cartridge
Includes Stereohedron II stylus. Output 0.04 mV; FR 10-50,000 Hz, individually calibrated to 20,000 Hz; tracking force 0.75-1.5; 3.8 g .. $250

HZ8S Phono Cartridge
Includes Stereohedron II stylus. Output 0.8 mV; FR 10-20,000 Hz; sep 35 dB at 1,000 Hz, 22 dB at 10,000 Hz; tracking force .75-1.5; 4 g..... $190

LZ8S Low Impedance Phono Cartridge
Includes stereohedron II stylus. Output 0.04 mV; FR 10-20,000 Hz; sep 35 dB at 1,000 Hz, 22 dB at 10,000 Hz; tracking force .75-1.5; 3.8 g ... $190

HZ7S Phono Cartridge
Includes Stereohedron II stylus. Output 0.8 mV; FR 10-20,000 Hz; sep 30 dB at 1,000 Hz, 15 dB at 10 kHz; tracking .75-1.25 g; 4 g $120

HZ6E Phono Cartridge
Includes elliptical stylus. Output 0.8 mV; FR 10-20,000 Hz; sep 30 dB at 1,000 Hz, 15 dB at 10,000 Hz; tracking force 0.75-1.25 ..... $95

GOLDBUG LABS BY RMI

Mr. Brier MC Phono Cartridge
Double-taperd hollow-tube cantilever. Output 22 mV at 5 cm/s; FR 20-20,000 Hz ± 1 dB; sep 30 dB at 1,000 Hz; tracking force 1.5-1.7 g; cartridge weight 7 g..... $990

Clement II MC Phono Cartridge
Beryllium hollow-tube cantilever and pure-oval diamond tip. Output 22 mV at 5 cm/s; FR 20-20,000 Hz ± 1 dB; sep 27 dB at 1,000 Hz; tracking force 1.6-1.8 g; cartridge weight 5.6 g . $490

Medusa MC Phono Cartridge
Oval diamond stylus. Output 2 mV at 5 cm/s; FR 20-20,000 Hz ± 1 dB; sep 27 dB at 1,000 Hz; tracking force 1.8-2 g; cartridge weight 5.8 g$250

GRADO

Joseph Grado Signature Series
MCX Cartridge
Hybrid design with 4 separate magnetic gaps around cantilever; compatible with light- to medium-mass tonearms and standard 47,000-ohm MM inputs; user-replaceable stylus. Output 1.5 mV; resonance 8-12 Hz; torsional resonance approximately 25,000 Hz; resistance 70 ohms; inductance 9 Mh $300

8MX Cartridge
User-replaceable stylus; compatible with standard 47,000-ohm MM inputs; output 3.5 mV; electrical resistance 475 ohms; inductance 45 mH $200

Specifications for all models below: 0.5" mounting centers (or optional P-mount for some); input load 47,000 ohms; inductance 45 millihenries; DC resistance 475 ohms; pickup weight 5 g.

Professional Series
Designed for high output and stability under severe use, for broadcast, in changers, or arms that will not track at 1 g; recommended tracking force 2-3 g. Output 4 mV at 3.54 cm/sec (45°); sep 20 dB 10-20,000 Hz.
XCE+. Specially selected units from XT production; elliptical diamond stylus $40
XTE+. Elliptical diamond stylus $27

Super Flux-Bridger Series
With 0.5" or P-mount. Recommended tracking force 0.75-2 g. Output 4 mV at 3.54 cm/sec (45°); sep 25 dB 10-30,000 Hz.
X2+. True Ellipsoid stylus $265
X1+. True Ellipsoid stylus $180
X+. Grado diamond stylus $120
XF1+. Grado diamond stylus $99
XF2+. Elliptical diamond stylus $82
XF3E+. Elliptical diamond stylus $66

Flux-Bridger Series
0.5" or P-mount; elliptical diamond stylus; Recommended tracking force 1-2 g. Output 4 mV at 3.54 cm/sec (45°); sep 20 dB 10-30,000 Hz.
XCE+1. ..... $52
XTE+1. ..... $20

Replacement Styli
For standard 0.5 and P-mount cartridges; spherical styli available for 78-rpm records $4.00 additional.
X2+/S. 2 gold dots $100.00
X1+/S. 2 yellow dots $69.00
X+/S. Brown plate $47.50
XF1+/S. 2 blue dots $42.00
XF2+/S. 2 white dots $33.00
XF3E+/S. Tan plate $30.80
XCE+1/S. 2 silver dots $28.50
XCE+/S. 2 red dots $26.50
XTE+/S. 2 red dots $18.75
XTE+1/S. 2 silver dots $15.50

HIGHPHONIC BY ANALOG EXCELLENCE

MC-D15 Signature MC Phono Cartridge
High-compliance diamond cantilever; gold-finish alloy body; ultra-line-contact stylus. Output 0.11 mV at 5 cm/sec; FR 10-120,000 Hz ± 2 dB; sep 35 dB at 1,000 Hz; tracking-force range 0.6-0.9 g; cartridge weight 6.5 g; left/right chs balanced within 0.001 mV output $2,000

MC-D12 MC Phono Cartridge
Diamond cantilever. Output 2.5 mV $1,250

MC-D10 MC Phono Cartridge
Diamond cantilever. Output 0.13 mV (1,000 Hz, 5 cm/sec); FR 10-80,000 Hz; 6.6 g $1,250

MC-A6 Signature MC Phono Cartridge
Titanium/aluminum alloy cantilever with silicon-carbide whiskers; 0.1 x 1.2 mil ultra-line-contact stylus. Output 0.12 mV at 5 cm/sec; FR 10-85,000 Hz ± 2 dB; sep 34 dB at 1,000 Hz; tracking force 0.8-1.2 g; cartridge weight 6.5 g; left/right ch balanced within 0.001 mV output . $745

MC-R5 MC Phono Cartridge
Ruby cantilever; ultra-line-contact stylus; nonresonant body. Output 0.12 mV at 5 cm/sec; FR 10-75 Hz ± 2 dB; sep 30 dB at 1,000 Hz; tracking force 0.9-1.1 g; cartridge weight 6.5 g; left/right ch balanced within 0.002 mV output $695

MC-A3 MC Phono Cartridge
Ultra-line-contact stylus; aluminum alloy body. Output 0.12 mV at 5 cm/sec; FR 10-70,000 Hz ± 2 dB; sep 28 dB at 1,000 Hz; tracking force 1-1.2 g; cartridge weight 6.5 g $395
MC-A2E. Same as MC-A3 with elliptical stylus; FR 20-50,000 Hz ± 3 dB $295

HEYBROOK BY D'ASCANIO AUDIO

The Heybrook Tonearm
Pivoted-tracking magnesium-tube straight tonearm with adjustable vertical tracking angle and fixed headshell. Statically balanced with fixed headshell and locking counterweight. Tracking-force range 0-3 g; overall length 11.62" ... $498

JVC

Z45EBP P-Mount Cartridge
P-mount dual-magnet cartridge with diamond stylus $40

KISEKI BY SUMIKO

Lapis Lazuli MC Cartridge
Made from lapis lazuli, blue stone with small gold particles; diamond cantilever; stylus, armature, magnet as in Agaat cartridges (see below); tested for about 50 hours with music; made on special order, requiring 2-3 months $5,600

Agaat Ruby 4.5 Cartridge
SaCo magnet 3 times as large as ordinary magnets for 35% higher output than Purpleheart or Blue Silverspot cartridges; 0.3-mm diameter, 4.5-mm long ruby cantilever; line-contact PF stylus 0.14 x 0.6 mil; bottom plate of aluminum/magnesium alloy bonded to body; color varies between white, black, red, green, blue; optimum performance after 15 hours playing, 22° C, humidity 65%. Output around 0.4 mV; ch balance ± 0.25 dB; sep ± 30 dB; FR 20-50,000 Hz; imp 42 ohms; tracking force 1.6-2.2 g; 11.2 g $2,100

Purpleheart Sapphire MC Cartridge
Housing of purpleheart wood; 4.5-mm-long sapphire cantilever with 0.3-mm diameter; same pole pieces and stylus as in Agaat Ruby 4.5 (above); Sendust armature; SaCo magnet. Output 0.4 mV (1,000 Hz, 5 cm/sec); ch balance ± 0.25 dB; sep ± 30 dB; FR 20-50,000 Hz; imp 42 ohms, 120 μsec; tracking force 2 g; 7.5 g $1,784

Purpleheart MC Cartridge
Aluminum/magnesium-alloy bottom plate; purpleheart wood housing changes from brown to purple in daylight; 0.14-x-0.60-mil super-elliptical stylus; SaCo magnet; gold/purple color; aluminum cantilever overlaid with boron; optimum performance after 15 hours playing at 22° with 65% humidity. Output around 0.4 mV; ch balance ± 0.25 dB; sep ± 30 dB; FR 20-50,000 Hz; imp 6 ohms; VTA 20°; tracking force 1.6-2.2 (2 g optimum); weight 7.5 g $1,240

LINN PRODUCTS BY AUDIOPHILE SYSTEMS

Troika Low-Output MC Cartridge
Elliptical stylus; body milled from solid aluminum; 3 mounting screws; flying-lead cartridge tags eliminate 1 connector. FR 20-20,000 Hz ± 1 dB; sep >30 dB at 1,000 Hz; tracking force 1.5-1.7 g; ch bal at 1,000 Hz within 1 dB; recommended load 470 ohms; tracking angle 20°$1,250
Replacement stylus $833

Kama Low-Output MC Cartridge
Elliptical stylus; body milled from solid aluminum. FR 20-20,000 Hz ± 1 dB; sep 30 dB at 1,000 Hz; tracking force 1.5-1.7 grams; cartridge weight 5.7 grams; ch bal within 1 dB at 1,000 Hz; tracking angle 20° $875
Replacement stylus $583

Asaka Moving-Coil Cartridge
Elliptical stylus; body milled from solid aluminum. Output 0.2 mV; FR 10-50,000 Hz ± 3 dB; sep 27 dB at 1,000 Hz; tracking force 1.5-1.9 grams; cartridge weight 5.7 g; VTA 20° $550
Replacement stylus $367

K-9 Moving-Magnet Cartridge
Elliptical stylus; aluminum cantilever. FR 20-20,000 Hz ± 2 dB; sep 25 dB at 1,000 Hz; tracking force 1.5-1.9 grams; VTA 20° $185
Replacement stylus $111

Basik Moving-Magnet Cartridge
Spherical stylus. FR 20-20,000 Hz ± 2 dB; ch sep 25 dB; tracking force 1.8 g; weight 6 g $50

Tonearms
Ittok LV-II Tonearm
Tonearm with 11.5" overall length, 9" stylus-pivot distance, damped cueing mechanism. Features radial ball bearings. Effective mass 12 g; total cable capacitance 100 pF; cartridge weight range 3-12 g $750

Basik Plus Tonearm
Straight statically balanced tonearm with fixed aluminum headshell and decoupled counterweight. Tracking-force range 0-3 grams calibrated to 0.1 gram; effective mass 11 grams; stylus overhang 18 mm; overall length 284 mm; effective length 230 mm. Includes Basik cartridge$250

MADRIGAL

Carnegie One MC Cartridge
Line-contact stylus; beryllium with carbon-fiber core enclosed in aluminum cantilever. Output 0.28 mV at 0.5 cm/s; sep >30 dB at 1,000 Hz; tracking-force range 1.5-1.8 g; cartridge weight 6.7 g; scanning radius 5 μm; VTA 24° $690

McINTOSH

MCC 1000 MC Phono Cartridge
Moving-coil phono cartridge with beryllium pipe cantilever. Output voltage 0.25 mV, 1,000 Hz, 45° peak, 3.54 cm/sec; ch sep more than 27 dB at 1,000 Hz; ch balance less than 1 dB; internal imp 14 ohms; stylus force 1.5 g ± 0.02g; 5.7 g $1,000

MICRO SEIKI BY ANALOG EXCELLENCE

C-2 High-Output MC Cartridge
Beryllium pipe cantilever; line-contact stylus. Output 2.5 mV at 5 cm/sec; FR 10-30,000 Hz; tracking force 1.8 g ± g; cartridge weight 9.5 g; internal imp 120 ohms; compliance 8 x 10 cm/dyne $395

MISSION ELECTRONICS

The Rose Cartridge
MC cartridge made from solid rosewood wired internally with ultra-fine linear crystal. Line-contact stylus; annealed boron cantilever; output 0.2 mV at 5 cm/sec; FR 20-20,000 Hz ± 0.5 dB; sep 25 dB at 1,000 Hz; max tracking force 2 g; cartridge weight 6.2 g; VTA 20° $599

Solitaire MM Phono Cartridge
Output 3 mV at 5 cm/sec; FR 20-20,000 Hz ± 2 dB; sep 28 dB at 1,000 Hz; tracking force 1.8-2 g; cartridge weight 5.7 g $99

773MM MM Phono Cartridge
Cartridge with 0.3 x 0.8 mil synthetic diamond stylus. Output 4 mV at 1,000 Hz, 3 mV 50 mm/sec at 1,000 Hz; sep 28 dB at 1,000 Hz; tracking force 1.5-2.5 g $79

Tonearms

The Mechanic Tonearm
Tonearm cut from single billet of aluminum with minimum number of separate pieces; direct-coupled rigid two-plane symmetric and concentric bearings in ceramic cups; fixed 23° 45' offset angle (adjustable); effective length 228 mm; pivot-spindle 210 mm; overhang 18 mm; effective mass 16 g; friction (horizontal or vertical) −14 g..$1,400

MONSTER CABLE

Alpha Genesis 1000 MC Cartridge
Low output; diamond-sputtered cantilever; phase-corrected coils $800
500 ..... $650

Alpha 2 H.O. MC Cartridge
High output; Micro-Ridge stylus; sapphire cantilever; Magnetic Field Control™ coil $650

MUSIC & SOUND IMPORTS

Mas 282 Series II Tonearm
Offers max rigidity and stability. Bearing system tolerance of 10 microns. Features straight, dynamically balanced, decoupled counterweight. Tracking-force range 0-2.5 g calibrated to .1 g; effective mass 11 g; stylus overhang 18 mm; effective length 229 mm $169

Mas Econocoil Phono Cartridge
High-output moving-coil cartridge with exceptionally flat response from 20-20,000 Hz. Features elliptical stylus; accousticly inert fibre glass reinforced plastic body. Output 2 mV at 1,005 cm/sec; FR 20-40,000 Hz ± 3 dB; sep 25 dB; tracking force 1.5-1.8 g; weight 4.5 g $129

MUSIC HALL

Bullet Cartridge
Highly modified Audio-Technica cartridge with elliptical stylus $100

ORTOFON

Ortophase Moving-Coil Phono Cartridges
MC3000. MC cartridge with ultra low mass (0.25 mg) moving system. Features propriety Ortofon Fg Replicant 100 stylus mounted on a rigid aluminum conical cantilever; carbon fiber armature wound with pure silver coils and a neodymium permanent magnet. Aluminum oxide, ceramic cartrige housing with Moh scale hardness factor of 9. Output voltage at 1,000 Hz 5cm/sec 0.1 mV; ch.sep. at 1,000 Hz >25dB; FR 5-90,000 Hz +4 −1dB; tracking ability at 315 Hz at recommended tracking force >80 μm; 9.5 g $1500
MC2000. MC cartridge with low-mass (0.27 mg) moving system; wide-range damping and rigid aluminum conical cantilever. Features symmetrical contact-line diamond; aluminum armature for a mass reduction of 66% in relation to traditional armature designs to prevent magnetic noise; samarium cobalt magnet; pure silver coils. Output voltage at 1,000 Hz, 5 cm/sec 0.050mV; ch sep at 1,000 Hz >25 dB; FR 5-90,000 Hz; tracking ability at 315 Hz at recommended tracking force >100 μm; weight of unit 11 g $750
MC30 Super. MC cartridge with extruded aluminum body, and carbon fiber support system, and silver coil windings. Stylus Fg type 1 with stylus tip radius r/R 4.5/80 μm. Output 0.25 mV at 1000 cm/sec; FR 15-45,000 Hz; sep >25 dB at 1,000 Hz; tracking ability at recommended tracking force 90 μm; weight 9 g $450
MC20 Super. MC cartridge with extruded aluminum body. Features Van den Hul stylus; carbon-fiber support system. Output 0.25 mV at 1,000

cm/sec; FR 15-40,000 Hz; sep >25 dB at 1,000 Hz; tracking-force range 1.5-1.9 g; cartridge weight 9 g $300
MC200U. MC cartridge with boron cantilever. Output 0.09 mV at 1,000 cm/sec; FR 20-25,000 Hz +3, −1 dB; sep >25 dB at 1,000 Hz; tracking-force range 1.2-1.8 g; weight 5.3 g $250
MC-100U. Low-mass MC cartridge with wide-range damping system. Features nude elliptical diamond. Output 0.09 mV at 1,000 cm/sec; FR 20-20,000 Hz +3, −1 dB; sep 25 dB at 1,000 Hz; tracking-force range 1.2-1.8 g; cartridge weight 5.3 g $150
MC10 Super. MC stereo phono cartridge with elliptical nude stylus. Vertical tracking angle 20°, output 0.25 mV at 1 kHz, 5 cm/sec; balance <1.5 dB at 1 kHz; FR 20-20,000 Hz ± 1 dB; tracking force 1.5 g; FIM distortion <1%; 7 g $150

High-Output Moving-Coil Cartridges
X5MC. High output MC cartridgefor direct connection to MM phono input. Features Fg type 2 nude diamond stylus. High output/low moving mass achieved through focused magnetic field and only 230 coil windings per pole piece. Output 2 mV at 5 cm/sec. FR 15-40KHz +4 −1.5 dB; sep >25 dB at 1,000 Hz. weight 4.1 g $300
X3-MC. High-ouput MC cartridge connects directly to MM-phono input. Features focused magnetic field for high output with low-moving mass (230 coil windings per pol piece) and nude fine-line diamond. Output 2 mV at 5 cm/sec; FR 20-40,000 Hz +4, −1.5 dB; sep >25 dB at 1,000 Hz; tracking-force range 1.8-2.2 g; cartridge weight 4.1 g; vertical tracking angle 23° $190
X3-MCP. P-mount version of X3-MC $190
X1-MC. High-ouput MC cartridge with low-moving mass, aluminum cantilever, and elliptical diamond. Output 2 mV at 5 cm/sec; FR 20-30,000 Hz +4, −1.5 dB; sep >22 dB at 1,000 Hz; tracking-force range 1.75-2.2 g; cartridge weight 4.1 g; vertical tracking angle 23° $100
X1-MCP. P-mount version of X1-MC $100

Diamond Collection 500 Series
540. MM cartridge utilizing proprietary slotted pole pin construction for improved high frequency response. Patented locking stylus guard to secure sylus to cartridge body avoiding unwanted resonances. Square-shank nude diamond Fg type 1. Output at 3mV at 1 kHz per 5 cm/sec. FR 20-28kHz +4, −1 dB; sep >25 dB; tracking force range from 1-1.5g; weight 5 g $300
530. Similar to 540 except uses square-shank nude fine-line diamond. FR 20-25,000 Hz .. $225
520. Similar to 530 except uses a square-shank nude elliptical diamond. sep 23dB; FR 20-23,000 Hz $150

Optimum-Mass Cartridges
OM-40 Gold. Variable-magnet-shunt cartridge with individually calibrated Van den Hul stylus. Output 3.5 mV at 1,000 cm/sec; FR 20-30,000 Hz; sep 25-1,000 dB at 1,000 Hz; tracking-force range 1-1.5 g; cartridge weight 5 or 2.5 g.. $300
OM-30. Low-mass variable-magnetic-shunt phono cartridge. Features cartridge body of neryl plastic for rigidity and low weight; copper coils; mu-metal container for electrical system; nude fine-line diamond stylus; tracking force 1.25 g; FR 20-27,000 Hz; output voltage at 1,000 Hz (5 cm/sec) 3.5 mV; wt 2.5 grams; ch sep at 1,000 Hz 25 dB $225
OMP-30. P-Mount version of OM-30; 6 g. $225
OM-20. Similar to OM-30 except for a more rectangular nude elliptical diamond stylus; designed for medium-weight tonearms; FR 20-22,000 Hz; output voltage at 1,000 Hz (5cm/sec) −4 mV$175
OMP-20. P-Mount version of OM-20; 6 g. $175
OM-10. Similar to OM-20 except for a heavier stylus tip; designed for use with heavier tonearms; tracking force 1.5 gram; FR 20-20,000 Hz; output voltage at 1,000 Hz (5 cm/sec) 4 mV; ch sep at 1,000 Hz 22 dB $95
OMP-10. P-Mount version of OM-10; 6 g.. $95
OM-5E. Similar to OM-10 except for heavier stylus tip; for use with heavier tonearms. Tracking force 1-5 g; FR 20-20,000 Hz..... $65
OMP-5E. P-Mount version of OM-5E $65

Pro Series
Concorde Pro Kit. MM cartridge kit with one Concorde integrated pro body and two spherical pro styli. FR 20-20,000 Hz; output 5 mV at 1,000 Hz 5 cm/sec; sep/balance at 1kHz 20/2dB; weight 16 g $95
OM Pro-Kit. MM-cartridge kit with one OM Pro body and 2 pro stili. Features spherical stylus and aluminum cantilever. Output 5 mV at 5 cm/sec; FR 20-18,000 Hz ± 3 dB; sep 20 dB at 1,000 Hz; tracking-force range 3-5 g; cartidge weight 5 g$95
Stylus Pro. Replacement stylus for OM Pro Kit $30

300 Series
320U. Universal P-mount with 0.5" mount adapter, moving magnet generating principal. Square shank nude eliptical diamond. FR 20-22,000 Hz; output 5 mV at 5 cm/sec; sep 24dB $129
310U. Similar to 320U except has highly-polished elliptical diamond stylus. FR 20-20,000 Hz . $89
305E. Similar to 310U except has an elliptical diamond stylus. sep 23dB $60

Universal Series
TM20U. Variable-magnetic-shunt cartridge with square shank nude eliptical diamond and universal mount. Output 4 mV at 1 kHz, 5 cm/sec; FR 20-25,000 Hz; bal/sep. 1.5/25 dB; wt 6g .. $129
TM14U. Stereo cartridge with elliptical diamond stylus and unversal mount. FR 20-20,000 Hz; output 4.5 mV; sep/balance 25/1.5 dB at 1 kHz; equivalent stylus tip mass 0.5 mg; recommended load 47k ohms/200 pF; tracking force 1.25g $89
TM7U. Cartridge with elliptical diamond stylus and universal mount. FR 20-20,000 Hz; output 5 mV at 1 kHz, 5 cm/sec; sep/balance 22/2 dB at 1 kHz; tracking force 1.25 g $60

VMS Series Phono Cartridges
FF15XE MkII. Variable Magnetic Shunt cartridge with 8-μm elliptical diamond stylus tip. Output 3.2 mV at 1 kHz, 1 cm/sec; FR 20-20,000

Hz; balance/sep 2 dB/20 dB at 1 kHz; compliance 20 μm/mN horizontal, vertical; tracking-force range 1.5-3 g; 5 g $50

PARASOUND

PCe77 P-Mount Phono Cartridge
Induced-magnet cartridge with aligned elliptical stylus. Output 4 mV at 3.54 cm/sec; FR 20-26,000 Hz ± 0.8 dB; sep 30 dB at 1,000 Hz; tracking force 1.25 g; cartridge weight 6.1 g $80

PCs55 Phono Cartridge
Standard 0.5"-mount induced-magnet cartridge with low mass, medium compliance, and hinged stylus guard. Thin-walled aluminum cantilever, 0.6-mil uniradial stylus. Output 5 mV at 3.54 cm/sec; FR 20-20,000 Hz ± 1 dB; sep 28 dB at 1,000 Hz; tracking force range 1.5-2 g; cartridge weight 3.7 g $60

IM1700 P-Mount Phono Cartridge
Induced-magnet cartridge with spherical stylus and aluminum cantilever. Output 5 mV at 3.54 cm/s; FR 20-20,000 Hz ± 1 dB; tracking-force range 1.5-2 g; cartridge weight 5 g; vertical tracking angle 20° $60

PICKERING

XLZ/7500S Phono Cartridge
Cartridge with nude Stereohedron diamond stylus tip. Sens 0.06 mV/cm/sec ± 2 dB; FR 10-50,000 Hz; sep 35 dB; tracking force 0.5-1.5 g; includes Dustamatic brush; replacement stylus D7500 ..... $250

XSV/5000 Phono Cartridge
Cartridge with nude Sterehedron diamond stylus tip. Output 3.8 mV; FR 10-50,000 Hz; tracking force 0.5 to 1.5 g; sep 35 dB; includes Dustamatic brush. Replacement stylus D5000 ..... $250
XSV/4000. Similar to XSV/5000 except FR 10-36,000 Hz; tracking force .75-1.5 g; replacement stylus D5000 ..... $180

XV-15/1200 Phono Cartridge
Output 4.4 mV at 5.5 cm/sec; FR 10-30,000 Hz; 0.2 x 0.7-mil elliptical stylus; tracking force 0.75 to 1.25 g; sep 35 dB; features Dustamatic brush; replacement stylus D1200 ..... $150

XV-15/757S Cartridge
Stereohedron stylus, output 4.4 mV; tracking force .75 -1.5 g; FR 10-25,000 Hz; replacement stylus D757S $125

XSV/3000 Phono Cartridge
Output 5 mV at 5.5 cm/sec; FR 10-30,000 Hz; Stereohedron stylus tip; tracking force 0.75 to 1.5 g; sep 35 dB; features Dustamatic brush; replacement stylus D3000 ..... $120

XV-15/625E Phono Cartridge
Output 4.4 mV at 5.5 cm/sec; FR 10-25,000 Hz; 0.3 x 0.7-mil elliptical stylus; tracking force 0.75 to 1.5 g; sep 35 dB; features Dustamatic brush; replacement stylus $100

XV-15/625DJ Phono Cartridge
Designed for disco use. Output 0.8 mV/cm/sec; sep 30 dB; tracking force 1-4 g; 0.3 x 0.7-mil elliptical stylus $75

XV-15/400E Phono Cartridge
Output 5.5 mV at 5.5 cm/sec; FR 10-25,000 Hz; 0.4 x 0.7-mil elliptical stylus; tracking force .75 to 1.5 g; sep 35 dB; features Dustamatic brush; replacement stylus D400 ..... $85

P-Mount Cartridges
TLZ/7500S. High-performance low-imp cartridge with 4-coil, high-energy samarium cobalt magnet. Nude stereohedron stylus; output 0.06 mV/cm/sec; travking force .75-1.5 g; FR 10-50,000 Hz $250
XSP/4004. Stereohedron stylus. Output 3.8 mV; tracking .75-1.5 g; FR 10-36,000 Hz $180
XSP/3003. Stereohedron series P-Mount cartridge with output 3.3 mV. fr 10-30,000 Hz; tracking force .75 to 1.5 g, ± .25 g $120
TL-4S. 4-coil induced magnet. Stereohedron stylus, output 4.4 mV, tracking force .75-1.5 g, FR 10-25,000 Hz $150
TL-3S. Stereohedron stylus. Output 4.4 mV;

tracking .75-1.5 g; FR 10-25,000 Hz $125
TL-2S. Stereohedron stylus. Output 4.4 mV; tracking .75-1.5 g; FR 10-22,000 Hz $100
TL-2E. Elliptical stylus. Output 4.4mV; tracking .75-1.5 g; FR 10-22,000 Hz $85
TL-1. Std P-Mount, 2-coil movin magnet. Tracking .75-1.5 g. Elliptical stylus, FR 10-20,000 Hz, output 4.4 mV $75
TL625DJ. P-Mount cartridge. FR 20-20,000 Hz, output 4.4 mV, tracking force 3.5-4 g. Replacement stylus DJL $75
TLE Type 2. Elliptical stylus. Output 3.0 mV; tracking force .75 to 1.5 g; FR 10-22,000 Hz $55
TLE. Elliptical stylus. Output 4.4 mV; tracking force .75 to 1.5 g; FR 10-20,000 Hz $50

V-15/ Series II-S. Stereohedron stylus, FR 10-25,000 Hz, output 3.5 mV. Replacement stylus DSR-S $80
V-15/Series II-EE. Elliptical stylus, FR 10-20,000 Hz, output 3.5 mV. Replacement stylus DSR-EE $50
V-15/ Series II-E. Elliptical stylus, FR 10-18,000 Hz, output 3.5 mV. Replacement stylus DSR-E $45

PIONEER

PC-295T Induced-Magnet Cartridge
T4P P-mount cartridge. FR 10-33,00 Hz; output voltage 2.5 mV; tracking force 1.25 g $80
PN-295T. Replacement stylus for PC-295T . $35

PC-300T Induced-Magnet Cartridge
T4P P-mount cartridge. FR 10-33,000 Hz; output voltage 2.5 mV; tracking force 1.25 g $80
PN-300T. Replacement stylus for PC-300T . $30

PC-290T Induced-Magnet Cartridge
T4P P-mount cartridge. FR 10-33,000 Hz; output voltage 2.5 mV; tracking force 1.25 g $70
PN290T. Replacement stylus for PC-290T . $30

PC-5MC Moving-Coil Cartridge
High-output MC cartridge. FR 10-32,000 Hz; output voltage 2 mV; tracking force 1.7-2.3 g .. $54
PN-5MC. Replacement stylus for PC-5MC . $32

PC-250T Moving-Magnet Cartridge
T4P P-mount cartridge. FR 10-30,00 Hz; output voltage 2.5 mV; tracking force 1-1.5 g $50
PN-250T. Repelacement stylus for PC-250T $20

PREMIER BY SUMIKO

MMT Tonearm—Featured on cover
Highly rigid medium-mass tonearm with double gimbal bearings; bearing design of Sumiko's The Arm for extremely free movement with no bearing play or chatter. Features decoupled counterweight; optional damping; removable headshell with azimuth adjustability and LC-OFC cartridge leads $290

FT-3 Straight Tonearm
Statically balanced tonearm with anti-resonance foam-stuffed tube. Features decoupled counterweight; cone and ball race bearings; LC-OFC litz wiring; VTA adjustable during play; termination box with LC-OFC flexible link and gold-plated RCA jacks. Fixed-azimuth adjustable magnesium headshell. Tracking force 0-3 g calibrated to 0.1 g; effective mass 10 g; offset angle 23°; stylus overhang 17.3 mm; overall length 305 mm; effective length 239 mm; tracking error 0.123°/cm; 20 oz $475
FT-3K $395

REALISTIC

RXT6 Realistic/Shure Cartridge
Telescope stylus; dynamic stabilizer; tracking force 1.25-1.75 g; P-mount adaptor and installation kit $50

RXP3 Realistic/Shure Cartridge
P-mount; elliptical diamond stylus; tracking force 1.25 g $40

R47XT Realistic/Shure Cartridge
Elliptical diamond stylus (10 x 18 microns); tracking force 1.75-2.25 g; sep 20 dB $30

RS500DJ Realistic/Stanton Cartridge
Pro Series cartridge for radio stations and dance clubs (back-cues and scratch mixes); tracking force 2.5 g $30
R500DJ. Replacement stylus $20

RX1500 Dual-Magnet Plug-In Cartridge
Diamond elliptical stylus; tracking force 1-1.5 g $30

R25XT Realistic/Shure Cartridge
Elliptical diamond stylus (10 x 18 microns); tracking force 2.5-3.5 g $20

Styli
RS3P. Diamond stylus for RXP3 and Shure M92E, M99E, M104E $28
R8X. Diamond stylus for R1000, Shure M90, M75, T-2 series $25
R5X. Diamond stylus for R47, Shure M70 and M75 series $20
RS50E. Diamond elliptical stylus for ADC, QLM34 MK III, P32, K5E cartridges $22
RT1500. Diamond elliptical stylus for RX1500, Audio-Technica AT-102P, 102, 112, 122EP cartridges; tracking force 1-1.5 g $20
R3X. Diamond stylus for R25, Shure M71 and M75ECS series $15
42-2772. Diamond conical stylus $15
DAT-2. Diamond conical stylus for Pickering V15/AT-1/2, KLH, similar cartridges $12
ATN-771E. Diamond elliptical stylus for Audio-Technica AT-70/71/71E $11
RSK8C. Diamond conical stylus for QLM30 and ADC K series cartridges $11
PS-203. Diamond stylus for Clarinette 14/15/16 and 13-1117/1118 ..... $6

REVOLVER BY MUSIC HALL

Revolver Straight Tonearm
Statically balanced pivoted direct-coupled tonearm with zero free-play-adjusted precision ball races; decoupled counterweight; fixed aluminum

For explanations of abbreviations, specifications, and technical terms, consult the glossary on page 221.

headshell. Tracking force 2-10 g calibrated to 0.1 g; effective mass 7 g; offset angle 23.5°; stylus overhang 18 mm; overall length 285 mm; effective length 228 mm; 393 g $175

SAEC BY ANALOG EXCELLENCE

C-1 MC Phono Cartridge
Medium output; beryllium cantilever; line-contact stylus; nonresonant metal-alloy body. Output 0.4 mV at 5 cm/sec; FR 10-50,000 Hz ± 2 dB; sep 30 dB at 1,000 Hz; tracking force 1.4-1.6 g; cartridge weight 9 g; internal imp 40 ohms; compliance 10 x 10^{-6} cm/dyne $595

C-2 High-Output MC Cartridge
Beryllium pipe cantilver; line-contact stylus. Output 2.5 mV at 5 cm/sec; FR 10-30,000 Hz; tracking force 1.8 g ± 0.25 g; cartridge weight 9.5 g; internal imp 120 ohms $395

C-102 MC Phono Cartridge
Medium-output; aluminum cantilever; nude diamond stylus. Output 0.6 mV at 5 cm/sec; FR 20-30,000 Hz ± 2 dB; sep 25 dB at 1,000 Hz; tracking force 1.6-1.8 g; cartridge weight 7 g; internal imp 40 ohms; compliance 10 x 10^{-6} cm/dyne$295

Tonearms

WE-8000S/T Straight Tonearm
Statically balanced tonearm with offset angle built into ceramic headshell. Features titanium/aluminum alloy pipe with 10° taper; lateral balance control; double-knife edge bearings; decoupled counterweight. For medium- to high-compliance cartridges. Headshell of fine ceramic, beryllium connector; tracking force 0-3 g calibrated to 0.1 g; offset angle 18 °; stylus overhang 13 mm; overall length 400 mm; effective length 293 mm; tracking error <1° $1,500

WE-506/30 J-Shaped Tonearm
Statically balanced; decoupled counterweight; special alloy pipe; universal design. Headshell of fine ceramic; tracking force 0-4.0 g calibrated to 0.1 g; offset angle 16°; stylus overhang 9 mm; overall length 392mm; effective length 286 mm; tracking error <1.5° $1,500

WE-407/23 J-Shaped Tonearm
Statically balanced tonearm with patented forged-steel double-knife-edge bearing. Each arm individually balanced in all 3 planes (horizontal; vertical; front/back). Headshell sintered and multicrystaled aluminum oxide, ceramic; tracking force 0-4 g calibrated to 0.1 g; offset angle 18°; stylus overhang 12 mm; overall length 311 mm; effective length 221 mm $895

WE-317S J-Shaped Tonearm
Statically balanced tonearm with double-edge bearings. Headshell of aluminum/titanium; tracking force 0-3 g calibrated to 0.1 g; offset angle 20°; stylus overhang 13 mm; overall length 331.5 mm; effective length 235 mm; tracking error <1.5° $695

WE-308N J-Shaped Tonearm
Statically balanced tonearm with double-knife-edge bearing and stainless steel pipe. Universal aluminum/titanium alloy headshell; tracking force 0-3 g calibrated to 0.1 g; offset angle 12.5°; stylus overhang 5 mm; overall length 329 mm; effective length 235 mm; tracking error <1.5° $395

SHURE

Ultra 500. All of V15 type V MR (see below) plus other features. Total eff mass 0.165 mg; dynamic vertical stylus compliance at 10 Hz 20 μcm/dyne; output at 1,000 Hz 3.2 mV $400

Ultra 400. Total eff mass 0.190 mg; dynamic vertical stylus compliance at 10 Hz 14 μcm/dyne; output at 1,000 Hz 4.0 mV $160

Ultra 300. Total eff mass 0.165 mg; dynamic vertical stylus compliance at 10 Hz 11 μcm/dyne; output at 1,000 Hz 3.2 mV $160

V15 Type V-MR Phono Cartridge
MM cartridge with improved low-distortion Micro-Ridge stylus tip and Microwall beryllium stylus shank for increased trackability. Features viscous-damped Dynamic Stabilizer and Side-Guard stylus protection system; includes Duo-Point Alignment Gauge and computer performance printout. Output 3.2 mV at 1,000 Hz (5 cm/sec peak velocity); FR 10-28,000 Hz; sep >25 dB at 1,000 Hz; tracking force 1.0 g $297

V15 Type V-B Phono Cartridge
MM cartridge with exclusive Hyperelliptical tip, Microwall beryllium stylus shank, Dynamic Stabilizer and Side-Guard stylus protection system. Includes individual computer performance printout. Output 3.2 mV at 1 kHz (5 cm/sec peak velocity); FR 10-28,000 Hz; sep 25 dB or greater at 1,000 Hz; tracking force 1.0 g $237

V15 Type V-P Phono Cartridge
Specifically designed for ultimate performance in P-Mount tonearms. Features Hyperelliptical tip; Microwall beryllium stylus shank; computer performance printout. Same specs as V15 type V-B. Replacement stylus VN5P $221

ML140HE Phono Cartridge
Slim-line high-efficiency cartridge body provides an extremely flat frequency response from 20-22,000 Hz. Superb trackability with Microwall beryllium shank and accurate tracing with Hyperelliptical tip. Slim Dynamic Stabilizer combats record warp problems while destaticizing and cleaning the record, and Side-Guard helps protect stylus from accidental damage. Includes overhang gauge. Output 4.0 mV at 1,000 Hz (5 cm/sec peak velocity); sep 25 dB or greater at 1 kHz; tracking force 1.0 g $205

ML120HE Phono Cartridge
Slim-line high-efficiency cartridge body provides flat FR from 20-22,000 Hz. Low-mass, high-stiffness telescoped stylus shank, Hyperelliptical tip, slim Dynamic Stabilizer and Side-Guard stylus protecton system. Output 4.0 mV at 1 kHz (5 cm/sec peak velocity); sep 25 dB or greater at 1 kHz; tracking force 1.0 g $167

M111HE Phono Cartridge
Features telescoped stylus shank, Hyperelliptical tip, Dynamic Stabilizer, Side-Guard stylus protection system; rigid, low-mass converter allows mounting to either conventional 0.5"-mount tonearms or most P-Mount tonearms; output 5.0 mV at 1 kHz (5 cm/sec peak velocity); FR 20-20,000 Hz; sep 25 dB; tracking force 1.25 g..... $146

M110HE Phono Cartridge
Features telescoped stylus shank, Hyperelliptical tip, and Side-Guard stylus protection system; rigid, low-mass converter allows mounting to either conventional 0.5"-mount tonearms or all P-mount tonearms; same specs as M111HE . $119

M105E Phono Cartridge
Features 0.2 x 0.7 mil elliptical tip and thin-walled, reinforced aluminum shank. Features Destaticizer Brush to clean dust from record grooves and remove static electricity from record surface, Side-Guard stylus protection system helps prevent accidental stylus damage. Fits most P-Mount tonearms and includes rigid 0.5"-mount converter. Output 5.0 mV at 1 kHz (5 cm/sec peak velocity); FR 20-20,000 Hz; sep 25 dB at 1 kHz; tracking force 1.25 g $108

M104E Phono Cartridge
Cartridge with accurate-tracing 0.2 x 0.7 mil elliptical stylus tip and tubular heat-treated aluminum stylus shank. P-Mount compatible and includes rigid 0.5"-mount converter. Output 5.0 mV at 1 kHz (5 cm/sec peak velocity); FR 20-20,000 Hz; sep 25 dB at 1 kHz; tracking force 1.25 g. Replacement stylus N104E $76

M55E Phono Cartridge
MM cartridge. Output 6.2 mV at 5 cm/sec peak velocity (1 kHz); FR 20-20,000 Hz; tracking force 0.75-2 g; sep 20 dB (1 kHz); 0.2 x 0.7-mil biradial (elliptical) stylus, replacement stylus N55E . $71

M44E Phono Cartridge
MM cartridge. Output 9.5 mV at 5 cm/sec peak velocity (1 kHz); FR 20-20,000 Hz; tracking force 1.75-4 g; sep 20 dB (1 kHz); 0.4 x 0.7-mil biradial (elliptical) stylus; replacement stylus N44E . $62

M99E Phono Cartridge
Heat-treated tubular aluminum stylus shank and 0.2 x 0.7 mil elliptical stylus tip. P-Mount compatible and fits conventional 0.5"-mount tonearms with rigid converter. Output 5.0 mV at 1 kHz (5 cm/sec peak velocity); FR 20-20,000 Hz; sep 20 dB; tracking force 1.25 g $54

M92E Phono Cartridge
Heat-treated tubular aluminum stylus shank and 0.4 x 0.7 mil elliptical stylus tip. P-Mount compatible and fits conventional 0.5"-mount tonearms with rigid converter. Output 5.0 mV at 1 kHz (5 cm/sec peak velocity); FR 20-18,000 Hz; sep 20 dB; tracking force 1.25 g $33

SIGNET

MK440ML MC Cartridge
Dual moving MicroCoil design features microline stylus on gold-plated beryllium cantilever. Output 0.1 mV at 5 cm/sec; FR 5-50,000 Hz; sep 25 dB at 1,000 Hz, 18 dB at 10,000 Hz; tracking-force range 1-1.6 g; cartridge weight 7 g .. $600

TK10ml Series II MM Cartridge
Features full toroidal coil wound with LC-OFC wire for generating system; Microline nude stylus mounted on boron cantilever. Reduced compliance on stylus assembly for compatiblity with wide range of tonearms. Output 2 mV at 5 cm/s; FR 20-20,000 Hz ± 3 dB; sep 35 dB at 1,000 Hz; tracking-force range 1-1.5 g; cartridge weight 7.5 g; scanning radius 2.5 micrometers; vertical tracking angle 20° $450

TKN10ml Series II. Replacement stylus for TK10ml Series II cartridge $250

MK220E MC Cartridge
Dual moving MicroCoil design with non-user replaceable stylus. Features 0.2 x 0.7 mil nude square-shank miniature elliptical diamond. Output 0.4mV at 5 cm/sec; FR 5-50,000 Hz; sep 25 dB at 1,000 Hz; cartridge weight 4.8 g $400

MR5.0ml MM Cartridge
Unicore-coil generating system with LC-OFC wire and microline stylus on gold-plated beryllium cantilever. Output 5 mV at 5 cm/sec; FR 5-37,000 Hz; sep 33 dB at 1,000 Hz, 25 dB at 10,000 Hz; tracking-force 0.8-1.8 g $350

MR5.0lc MM Cartridge
Unicore-coil generating system with LC-OFC wire and square-shank nude stylus on beryllium cantilever. Output 50 mV; FR 5-35,000 Hz; sep 33 dB at 1,000 Hz, 23 dB at 10,000 Hz; tracking-force range 0.8-1.6 g; cartridge weight 6 g . $275

TK8LCp P-Mount MM Cartridge
Universal design with straight-line-contact stylus on beryllium cantilever. Output 5 mV at 5 cm/

sec; FR 5-35,000 Hz; sep 33 dB at 1,000 Hz, 23 dB at 10,000 Hz; tracking-force range 1-1.5 g; cartridge weight 6 g $250

MR5.0me MM Cartridge
Unicore-coil generating system with LC-OFC wire and 0.2 x 0.7 mil square-shank nude stylus. Output 5 mV at 5 cm/sec; FR 5-30,000 Hz; sep 30 dB at 1,000 Hz, 20 dB at 10,000 Hz; tracking-force range 0.8-1.6 g; cartridge weight 6 g . $225

MK120He MC Cartridge
High-output design features user-replaceable stylus with 0.2 x 0.7 mil nude square-shank diamond. Output 2 mV at 5 cm/sec; FR 15-30,000 Hz; sep 29 dB at 1,000 Hz, 20 dB at 10,000 Hz; tracking force 1.2-1.8 g; weight 5 g..... $200

MK66e MC Cartridge
Low-mass cartridge with dual moving MicroCoil design. Features user-replaceable stylus with 0.2 x 0.7 mil square-shank nude diamond. Output 0.5 mV at 5 cm/sec; FR 15-30,000 Hz; sep 29 dB at 1,000 Hz, 20 dB at 10,000 Hz; tracking-force range 1.2-1.8 g; cartridge weight 4.2 g $200

MR5.0e MM Cartridge
Unicore-coil generating system with LC-OFC wire and 0.3 x 0.7 mil nude stylus. Output 5 mV at 5 cm/sec; FR 10-30,000 Hz; sep 29 dB at 1,000 Hz, 19 dB at 10,000 Hz; tracking-force range 0.9-1.9 g; cartridge weight 6 g $195

MK55e MC Cartridge
Low mass; dual moving MicroCoil design; user-replaceable stylus with 0.3 x 0.7 mil nude mounted diamond. Output 0.5 mV at 5 cm/sec; FR 20-28,000 Hz; sep 28 dB at 1,000 Hz, 18 dB at 10,000 Hz; tracking-force range 1.2-1.8 g; cartridge weight 4.2 g..... $150

TK6Ep MM P-mount Cartridge
Universal design with 0.2 x 0.7 mil square-shank nude diamond. Output 5 mV at 5 cm/sec; FR 10-30,000 Hz; sep 29 dB at 1,000 Hz, 20 dB at 10,000 Hz; tracking-force range 1-1.5 g ... $150

HiTec 107 P-mount Cartridge
Universal with 2 magnets, linear-contact stylus. Output at 1,000 Hz, 5 cm/sec 3.0 mV; FR 10-30,000 Hz; sep at 1,000 Hz 31 dB, 10,000 Hz 21 dB; tracking force 1-1.5 g; weight 6 g..... $150

MR5.0 Basic MM Cartridge
Unicore-coil generating system with LC-OFC wire and 0.4 x 0.7 mil bonded elliptical stylus. Output 5 mV at 5 cm/sec; FR 15-25,000 Hz; sep 27 dB at 1,000 Hz, 17 dB at 10,000 Hz; tracking-force range 1.3-2.3 g; cartridge weight 6 g . $125

HiTec 105 MM P-mount Cartridge
Universal cartridge with dual magnets, 0.3 x 0.7 mil elliptical stylus. Output 5.0 mV at 1,000 Hz, 5/cm/sec; FR 15-27,000 Hz; 29 dB sep 1,000 Hz, 18 dB 10,000 Hz; tracking force range 1.0-1.5 g; cartridge weight 6 g $110

TK4Ep MM P-mount Cartridge
Universal design with 0.3 x 0.7 mil nude stylus. Output 5 mV at 5 cm/sec; FR 15-20,000 Hz; sep 28 dB at 1,000 Hz, 19 dB at 10,000 Hz; tracking-force range 1-1.5 g; cartridge weight 6 g ... $95

HiTec 103 MM P-mount Cartridge
Universal design with dual magnets. 0.4 x 0.7 mil elliptical stylus. Output 5.0 mV, 5/cm/sec; FR 15-25,000 Hz; 25 dB sep at 1,000 Hz, 17 dB at 10,000 Hz; recommended tracking force range 1.0-1.5 g; cartridge weight 6 g $90

TK2Ep MM P-mount Cartridge
Universal design with 0.4 x 0.7 mil elliptical stylus. Output 5 mV at 5 cm/sec; FR 15-25,000 Hz; sep 26 dB at 1,000 Hz, 17 dB at 10,000 Hz; tracking-force range 1-1.5 g; cartridge weight 6 g $65

HiTec 101 MM P-mount Cartridge
Universal with dual magnets. 0.6-mil conical stylus. Output 5/cm/sec 5mV; FR 20-20,000 Hz; 24 dB sep at 1,000 Hz, 15 dB at 10,000 Hz; tracking force 1.0-1.5 g; cartridge weight 6 g $60

Tonearms

XK-35 Tonearm
Tonearm with Signetrace damped planar tracking, nonremovable tube. Tracking error ± 1°; cable capacitance 75 pF; effective length (stylus tip to pivot) 240 mm; tracking force range 0-2 g; acceptable cartridge weight 2-9 g; anti-skating adjustment $325

Tonearm Accessories
XKS451. Interconnect cables for XK-35 and XK-50. Also compatible with all tonearms employing universal Japanese tonearm connector .. $35-50
ATB-2. Tonearm adapter mates Signet tonearms to SME armboards $40
ARO-1. Replacement damping trough with silicone damping fluid in syringe. For XK-35.. $15

SME BY SUMIKO

SME Series V Straight Tonearm
Dynamically balanced tonearm with ultra-rigid 1-piece magnesium casting from headshell to rear of counterweight rails. Features captive ball-race bearings; VTA adjustable during play; internally tapered arm tube for reduced mass and better control of standing waves; silver wiring throughout. Tracking force 0-3 grams calibrated to 0.1; effective mass 11 g; offset angle 23° 38'; tonearm weight 720 g.....$2,050
Series IV. Similar to Series V $1,250

SONUS BY SONIC RESEARCH

CD-11 D-5 Dimension 5 Phono Cartridge
Magnetic cartridge with Lambda diamond stylus, integrated tapered aluminum cantilever; micromachined armature; designed to reproduce direct-to-disc and PCM-mastered recordings. Output 0.8 mV/cm/sec; FR 10-20,000 Hz ± 1 dB, 20-40,000 Hz +2/−5 dB; compliance 50 cm/dyne x 10^{-6}; balance/sep ± .330 dB at 1,000 Hz; tracking force range 1-1.5 g; 5.5 g $250
RCD-11. Replacement stylus $125
CC-11 Calibrated D-5. Similar to Dimension 5 except hand calibrated $350
Replacement stylus $175

SB-11 Super Blue Phono Cartridge
Moving-iron cartridge with Lambda stylus and super-lightweight moving system. Sep 20 dB, 20-20,000 Hz; output 4 mV at 5 cm/sec; tracking force 1-1.5 g; 5.5 g..... $195
RSB-11. Replacement stylus $98

CG-12 Gold Blue Phono Cartridge
High-compliance cartridge with low moving mass, sophisticated modified line-contact stylus. Output 4 mV at 5 cm/sec; compliance 50 cm/dyne x 10^{-6}; vertical tracking angle 202; sep 30 dB at 1 kHz; tracking force 1-1.5 g; 5.5 g . $165
RCG-12. Replacement stylus $87

Silver Phono Cartridges
Similar to Gold series. Output 1.0 mV/cm/sec at 1 kHz; compliance 40 cms/dyne x 10^{-6}; balance ± 2 dB; ch sep 30 dB at 1 kHz; load imp 47k ohms; tracking force range 1-1.5 g; 5.5 g.
CS-22 Silver P. Modified line-contact stylus (RCS-22 replacement stylus) $100
CS-23 Silver E. Biradial (elliptical) stylus FR 10-20,000 Hz ± 1.5 dB $95
RCS-23. Replacement stylus $45

CB-23 Black A Phono Cartridge
Similar to Gold cartridges. Output 1.0 mV/cm/sec, 5 mV at 5 cms/sec; FR 10-10,000 Hz ± 1 dB, 10-20,000 Hz +2/−1 dB; balance/sep ± 2/25 dB at 1 kHz; compliance 30 x 10^{-6} cm/dyne; load imp 47k ohms; 5.5 g. Precision-ground and polished biradial elliptical stylus; tracking force range 1.5-2 g $80
RCB-23. Replacement stylus $40

SR-202 Stereo Cartridge
Moving-iron cartridge with low-mass elliptical stylus; designed for moderate S-and J-shaped tonearms. Compliance 25 x 10^{-6} cm/dyne; balance sep ± 2/25 dB at 1 kHz; 5.5 g $60
RSR-25. Replacement stylus $25

SPM-5 Plug-In Cartridge
Nude line-contact stylus plus low-mass aluminum cantilever. FR 20-20,000 Hz −3 dB; sep 25 dB at 1,000 Hz. Available with adapter for fitting on standard tonearms. $160
SPM-4. Similar to SPM-5 but has bonded line-contact stylus. Tracking force 1.25 gm ± 0.25; output 4.0 mV at 5 cm/sec $135

SPM-3 Cartridge
Low-mass elliptical stylus 0.2 x 0.7 mil; FR 20-20,000 Hz, thin wall tube cantilever; ch balance ± 1.5 dB (replacement stylus RPSM-3) ... $115

SPM-2 Cartridge
Elliptical stylus 0.2 x 0.7 mil, sep 20 dB at 1,000 Hz; 6.0 g..... $90
SPM-1. Similar to SPM-2 but has 0.3 x 0.7 mil elliptical stylus $60

SOUTHER ENGINEERING

Veritas Moving-Coil Cartridge
MC cartridge with coils on each side of pivot and hollow boron cantilever. Features line-contact diamond. Output 0.5 mV at 5 cm/sec; FR 20-60,000 Hz ± 0.5 dB; sep 30 dB at 1,000 Hz; tracking-force range 1.75-2.25 g; cartridge weight 4.4 g..... $800
Gamma. As above except 25-dB sep $450

Tonearms

Tribeam 12 Straight Tonearm
Statically balanced tonearm with stainless-steel Flagship. Features tri-quartz track sand-filled chassis; one-knob VTA adjust while playing. Velox and titanium headshell; tracking-force range 0.5-2.5 grams; effective mass adjustable med to high; offset angle 0°; overall length 254 millimeters; effective length 50 millimeters $3,000
Tribeam 16. For 16" discs $3,500

SLA 3 Tri-Quartz Straight Tonearm
Statically balanced tonearm with pure-quartz track and equimass-patented system. Velox and titanium headshell; tracking force range 0.5-2.5 grams; effective mass adjustable from medium to high; offset angle 0°; overall length 254 mm; effective length 50 mm; tracking error 0°; 13.4 oz$850

Southern Junior Straight Tonearm
Statically balanced tonearm with special cover and linear and track guage. Velox and titanium headshell; tracking force range 0.5-2.5 grams; effective mass 50 grams; offset angle 0°; overall length 254 mm; effective length 50 mm; tracking error 0°; 13 oz $550

STANTON

Calibration Series

981LZ Mk IIs Phono Cartridge
Low-imp cartridge, fully calibrated for exact precision with nude Stereohedron diamond stylus.

Includes mounted "longhair" brush. Output 0.06 mV/cm/sec 22 dB; tracking force 1 g ± .25 g; FR 10-50,000 Hz; sep 35 dB; weight 5.5 g $250

981HZ Mk IIs Phono Cartridge
High-imp stereo cartridge with nude Stereohedron diamond stylus, fully calibrated. Includes mounted "longhair" brush. Output 0.7 mV/cm/sec; tracking force 1 g ± .25; FR 10-50,000 Hz; sep 35 dB at 1 kHz; weight 5.5 g $250

881S Mk IIs Phono Cartridge
Output 0.9 mV/cm/sec; FR 10-25,000 Hz (individually calibrated to 20,000 Hz); balance/sep (1 kHz) ± 1 dB/35 dB; load imp 47 kilohms; load capacitance 275 pF; tracking force 0.75-1.25 g; nude Stereohedron stylus; 5.7 g with self-supporting (1 g) brush; white with silver handle, white brush; replacement stylus D81S, D810 for mono LPs, D827 for 78s $180

681EEE MK II-S Phono Cartridge
Induced-magnet cartridge with Stereohedron II stylus shape; dynamically improved cantilever assembly. Output 0.7 mV/cm/sec; FR 10-22,000 Hz; sep 35 dB at 1,000 Hz; tracking force 1 g ± .25; cartridge weight 6.3 g $120

High-Performance P-Mounts

L-847S P-Mount Cartridge
Top-of-the-line P-Mount cartridge. Features Stereohedron stylus; tracking .75-1.5 gs; output 0.7 mV/cm/sec; FR 10-36,000 Hz; ch balance <2 dB; sep 35 dB, 5.9 g; replacement stylus D84S. $180

L-837S P-Mount Cartridge
Features Stereohedron stylus; tracks at 0.75-1.5 g; output 0.9 mV/cm/sec; FR 10-30,000 Hz; ch balance ± 2 dB; sep 35 dB..... $140

Stereo Standard P-Mount Series

L747S Plug-In Cartridge
Features Stereohedron stylus. FR 10-25,000 Hz; tracking force 0.75-1.5 g; output 0.9 mV/cm/sec; sep 35 dB; 5.7 g. Replacement stylus D747S$125

L737S Phono Cartridge
Plug-in cartridge features Stereohedron stylus. Tracking force 0.75-1.5 g; output 0.9 mV/cm/sec; FR 10-22,000 Hz; ch balance 2 dB; ch sep 35 dB. Replacement stylus D73S; weight 5.7 g $100

L737E Plug-In Cartridge
Elliptical stylus, 0.3 x 0.7 mil; output 0.9 mV/cm/sec; FR 10-22,000 Hz; tracking .75-1.5 g; ch balance 2 dB; sep 35 dB; weight 5.7 g. Replacement stylus D73E $85

L-727E P-Mount Phono Cartridge
Plug-in cartridge with 0.4 x 0.7-mil elliptical stylus. FR 10-25,000 Hz; tracking force .75-1.5 g; output 0.8 mV/cm/sec; sep 32 dB $75

L725E P-Mount Cartridge
Cartridge with elliptical stylus; tracking force 0.75-1.5 g; output 0.8 mV/cm/sec; FR 10-22,000 Hz; ch balance <2 dB; sep 28 dB; replacement stylus D71-2E; weight 5.7 g $55

L720EE P-Mount Cartridge
Elliptical stylus 0.3 x 0.7 mil; output 0.8 mV/cm/sec; FR 10-20,000 Hz; tracking .75-1.5 g; ch balance 2 dB; ch sep 28 dB; replacement stylus D71EE. Weight 5.7 g $50

Professional Cartridges
Low-Impedance Series

885LZS Low-Impedance Cartridge
Low-imp stereo cartridge with long-contact-line Stereohedron stylus, mounted "longhair" brush. FR 20-40,000 Hz; output 0.06 mV/cm/sec; sep 35 dB; 90-micron tracking at 1-g force; 5.5 g. Replacement stylus D88S $150

785LZE Phono Cartridge
Low-imp cartridge with 0.2 x 0.7-mil elliptical stylus. FR 20-30,000 Hz; output 0.6 mV/cm/sec; sep 30 dB; 80-micron tracking at 1-g force; 5.5 g; replacement stylus D78E $100

Disco Series

680SL Disco Cartridge
Output 1.1 mV/cm/sec; FR 20-20,000 Hz; balance/sep 2/30 dB; load resistance 47 kilohms; load capacitance 275 pF; nude Stereohedron stylus tip; tracking force 3-6 g with brush ... $109

L680EL Disco Cartridge
For P-Mount tonearms; automatically compensates for higher tracking forces. Includes fluorescent-coated stylus. Output 1.1 mV/cm/sec; FR 20-18,000 Hz; sep 30 dB at 1,000 Hz; tracking force 3.5-4 g; weight 8.4 g. Replacement stylus D6800EL $106

680EL Disco Cartridge
Output 0.82 mV/cm/sec; FR 20-18,000 Hz; balance/sep ± 2/30 dB (1 kHz); load imp 47 kilohms; load capacitance 275 pF; tracking force 2-5 g; 0.4 x 0.7-mil elliptical diamond stylus; 5.5 g; replacement stylus D6800EL. Comes with extra stylus..... $100

681SE Phono Cartridge (Calibrated)
Output 1 mV/cm/sec; FR 10-10,000 Hz ± 0.5 dB; 10,000 Hz to 20,000 Hz, individually calibrated; balance/sep ± 2 dB/35 dB (1 kHz); load imp 47 kilohms; load capacitance 275 pF; tracking force 2-4 g; 0.4 x 0.7-mil elliptical stylus; weight 5.5 g with self-supporting (1 g) brush; replacement stylus D6800SE, D6810 for LPs, D6827 for 78s$110

680 Disco Cartridge
Output 1.1 mV/cm/sec; FR 20-18,000 Hz ± 2 dB; bal/sep ± 2/30 dB (1 kHz); load resistance 47,000 ohms; load capacitance 275 pF; tracking force 2-5 g; 0.7-mil spherical stylus tip; comes with extra stylus. Weight 5.5 g; replacement stylus D6800AL $90

L500AL Disco Cartridge
P-Mount MM cartridge automatically compensates for higher tracking forces required for disco use. Comes with fluorescent-coated stylus. Output 1.0 mV/cm/sec; FR 20-17,000 Hz; sep 28 dB at 1,000 Hz; tracking force 3.5-4 g; cartridge weight 8.5 g; replacement stylus D57PAL .. $53
500EL. Similar to above except output FR 20-18,000 Hz; sep 30 dB at 1,000 Hz; tracking force 2-5 g; cartridge weight 5 g; replacement stylus D5100EL $45

500AL Disco Cartridge
Output 1.0 mV/cm/sec; FR 20-17,000 Hz ± 2 dB; bal/sep ± 2/28 dB (1 kHz); load resistance 47,000 ohms; load capacitance 275 pF; tracking force 3-7 g; 0.7 mil spherical stylus. Weight 5 g; replacement stylus D5107AL.....$37.50

Stereo Standard Series (with "Longhair" Brush)

680EE (S) Phono Cartridge
Cartridge with Stereohedron stylus. Output 0.82 mV/cm/sec; FR 10-20,000 Hz; tracking force 0.75-1.5 g; weight 6.3 g; replacement stylus D680S $95

680EE Phono Cartridge
Output 0.82 mV/cm/sec; FR 20-20,000 Hz; balance/sep ± 2 dB/35 dB (1 kHz); load imp 47 kilohms; load capacitance 275 pF; tracking force 0.75-1.5 g $76

Broadcast Standard Series

600EE Phono Cartridge
Output 1 mV/cm/sec; FR 20-20,000 Hz ± 2.5 dB; balance/sep ± 2/35 dB (1 kHz); load imp 47 kilohms; load capacitance 275 pF; tracking force 1-2 g; 0.3 x 0.7-mil elliptical diamond stylus; weight 5 g; replacement stylus D6003EE, D6010 for LPs, D6027 for 78s $66
600E. Similar to 600EE but FR 20-20,000 Hz ± 2 dB; elliptical diamond stylus; tracking force 1.5-3 g; replacement stylus D6004fE $57

Broadcast Series—Mark II
500EE Mk II. Output 1 mV/cm/sec ± 2 dB; FR 10-20,000 Hz; balance/sep ± 2/35 dB (1 kHz); tracking force .75-1.5 g; 0.3 x 0.7-mil elliptical diamond stylus; replacement stylus D50EE Mk II $50
500E Mk II. Output 1 mV/cm/sec ± 2 dB; FR 10-22,000 Hz; balance/sep ± 2/35 dB (1 kHz); tracking force 1-2 g; 0.4 x 0.7-mil elliptical diamond stylus; weight 5.5 g; replacement stylus D50E Mk II..... $45
500A Mk. II. Output 1 mV/cm/sec ± 2 dB; FR 10-20,000 Hz; balance/sep ± 2/35 dB (1 kHz); tracking force 1-2 g; 0.7-mil spherical diamond stylus; weight 5.5 g $37.50

SUPEX BY SUMIKO

SD-901 Mark IV T.Q.A. Phono Cartridge
High-output MC cartridge with improvements over SD-901E in high-frequency linearity, tracking, and dynamics. Output 1.7 mV at 3.54 cm/sec; FR 10-42,000 Hz ± 2 dB; sep 27 dB at 1,000 Hz; tracking force 1.8-2.2 g; wt 9.1 g $380

SD-900 Mark IV T.Q.A. Phono Cartridge
Image specificity, tracking, and dynamic contrast improved over SE-99E; nude-mount elliptical Vital solid diamond stylus. Each cartridge hand-selected by David W. Fletcher. Output 0.2 mV at 3.54 cm/sec; FR 10-50,000 Hz ± 2 dB; sep 27 dB at 1,000 Hz; tracking force 1.8-2.2 g; cartridge weight 8.3 g $360
SD-900E+ Super $324

SD-3300 Phono Cartridge
MC cartridge with miniaturized body of nonresonant material and Vital diamond grain-oriented stylus; hand-wound coils; samarium-cobalt magnets; aluminum/magnesium alloy cantilever. Output 0.15 mV at 3.54 cm/sec; FR 20-30,000 Hz ± 3 dB; sep 30 dB at 1,000 Hz; tracking force 1.5-1.9 g; cartridge weight 3 g $240
SDX-3300. Boron $1,009

SYSTEMDEK

TA-1 Tonearm
Pivoted tonearm with fixed cartridge mount. Cueing, anti-skate, adjustable vertical tracking angle, pivot-stylus distance 11.75". Tracking force 1-3 g; cartridge weight range 3-10 g; cable capacitance 300 pF; mounting hole diameter 1-.5" $160

TALISMAN BY SUMIKO

Virtuoso DTi Phono Cartridge
MC cartridge with diamond titanium-tube cantilever and anti-resonance foam insert; mass-reduced van den Hul Type 1 stylus. Output 1.8 mV at 5 cm/sec; FR 15-35,000 Hz ± 3 dB; sep 30 dB at 1,000 Hz; tracking force 1.75-2.25 g; cartridge

For explanations of abbreviations, specifications, and technical terms, consult the glossary on page 221.

CARTRIDGES & TONEARMS

weight 7.5 g $1,200
Virtuoso Boron $856

Talisman B MC Cartridge—Featured on cover
Direct Field Focus design to reduce magnetic losses and fringing effects by eliminating magnetic yokes and all but 1 pole piece; energy from samarium cobalt ring magnet pulled across coils by front-mounted pole piece; solid zinc body for reduced resonance, tapered for rigidity; minimal internal air spaces; low-mass boron-tube cantilever; long-line-contact diamond $345
Talisman S. Identical to Talisman B except sapphire-tube cantilever $395
Talisman A. Identical to Talisman S except aluminum/magnesium alloy cantilever with nude-mounted elliptical diamond stylus $253

Alchemist IIIs Phono Cartridge
"Intensified Focus" design for high output without slow transients, poor tracking ability, straining at high modulations. Intense magnetic focus at coils concentrates energy to prevent virtually all losses and fringing effects. Hollow sapphire cantilever with laser-indexed, grain-oriented long-line contact stylus. Solid zinc body to prevent resonance. Output 2.0 mV at 3.54 cm/sec; FR 10-60,000 Hz; sep 30 dB at 1,000 Hz; tracking force 1.5-2.5 g; cartridge weight 6.7 g $462

Alchemist IIB Phono Cartridge
Similar to Alchemist IIIs except boron-rod cantilever with nude-mount elliptical stylus $323
Alchemist IA. Similar to Alchemist IIIs except aluminum/magnesium cantilever with nude-mount elliptical stylus $323

TECHNICS

EPC-205CMK4 MM P-Mount Cartridge
Ultra-low-mass-cantilever, P-Mount cartridge. Output 2.5 mV at 5 cm/sec; sep 25 dB at 1,000 Hz; tracking force 1.25 g ± 0.25 g; cartridge weight 6 g; 0.2 x 0.7 mil elliptional nude diamond; effective moving mass 0.019 mg; neodymium magnet $250
EPC-205CMK4. Same as EPC-205CMK4 except regular mounting $280

EPC-P310 MCMK2 MC Cartridge
With ultra-low-mass cantilever. Output 1.2 mV at 5 cm/sec; separation 25 dB at 1,000; tracking-force range 1.25 g ± 0.25 grams; cartridge weight 6 g; 0.139-mg boron cantilever; neodymium magnet; coreless twin ring coils; 0.2 x 0.7 nude diamond stylus $200

EPC-P550 MM Cartridge
With ultra-low-mass cantilever. Output 2.5 mV at 5 cm/sec; sep 25 dB at 1,000 Hz; tracking force range 2.5 g ± 0.25 g; cartridge weight 6 g; 0.3 x 0.7 mil elliptical diamond $100

EPC-P540 MM Cartridge
Output 2.5 mV cm/sec; sep 25 dB at 1,000 Hz; tracking force 1.25 ± 0.25 grams; cartridge weight 6 g $70

EPC-P530 MM Cartridge
Output 2.5 mV at 5 cm/sec; sep 25 dB at 1,000 Hz; tracking force 1.25 ± 0.25 grams; cartridge weight 6 g $50

Tonearm

EPA 250 S-Shaped Tonearm
Dynamically balanced tonearm with decoupled counterweight. Tracking-force range 0-2 g; effective mass 14 g; stylus overhang 15 mm; overall length 343 mm; effective length 250 mm; tracking error +1°6' at inner groove and +2°6' at outer groove $475

YAMAHA

MC-100 Moving-Coil Phono Cartridge
Features cross-matrix air-core moving-coil system; pure-beryllium tapered tubular cantilever; distinctive metal housing for high magnetic flux density; origninal equalizing damper; high energy samarium cobalt magnet. 9.5 g $300

MC-505 Moving-Coil Phono Cartridge
Features cross-matrix moving-coil system; pure-beryllium tapered tubular cantilever; Low Temperature Dependency (LTD) equalizing damper; Sendust core; 1-point suspension; resonance-free one-piece housing. 3.4 g $200

MC-501 Moving-Coil Phono Cartridge
Features cross-matrix moving-coil system; aluminum tapered tubular cantilever; Low Temperature Dependency (LTD) equalizing damper; Sendust core; resonance-free housing. 3.4 g ... $150

MC-10 Moving-Coil Phono Cartridge
Features cross-matrix moving-coil system; aluminum tapered tubular cantilever; original equalizing damper; metal housing assembly; one-point suspension. 5.4 g $120

MC-21 MC/MM Phono Cartridge
Features MM/MC phono input compatibility; cross-matrix moving-coil system; aluminum tapered tubular cantilever; original equalizing damper; resonance free housing. 2.8 g $70

ZETA BY RMI

Zeta Straight Tonearm
Statically balanced tonearm with fixed aluminum headshell. Tracking force 1-5 grams; effective mass 16 grams; stylus overhang 18 mm; overall length 290 mm; effective length 210 mm .. $875

TURNTABLES

(Continued from page 124.)

THORENS BY EPI

All Thorens turntables are belt-driven, single-play units having straight tubular tonearms for maximum rigidity; gimbal suspension; antiskate control; 9.12" effective tonearm length; tracking error <0.18°/cm (<0.46°/in.).

Phantasie Semiautomatic Single-Play Turntable
Belt-drive 33.33 and 45-rpm turntable with solid plexiglass chassis; 16-pole synchronous motor; twin solid-core chassis and 3-point leaf-spring suspension. W&F 0.35%, rumble −52 dB unwtd, −72 dB wtd $2,295
TD 320. As above with wood chassis $549
TD 321. Armless version of TD-320 ..... $450

TD 520 Semiautomatic Single-Play Turntable
Belt drive with auto tonearm lift, motor shut-off. 33.33, 45, 78 rpm; electronic speed selection; ± 6% pitch control; twin solid-core chassis; 3-point leaf-spring suspension. W&F 0.035% $999
TD 521. Same as above without tonearm .. $900

TD 318 Semiautomatic Single-Play Turntable
Belt-drive 33.33 and 45 rpm turntable with 16-pole synchronous motor; twin solid-core chassis; 3-point leaf-spring suspension. W&F 0.04%; rumble −50 dB unwtd, −70 dB unwtd $399
TD 316. Manual turntable similar to TD 318 without auto lift and shut off $299

TD 280 Semiautomatic Single-Play Turntable
Belt-drive 33.33/45 rpm with 24-pole synchronous motor. 1-piece solid-core chassis and spring damping elements in feet. W&F 0.045%; rumble −48 dB unwtd, −70 dB wtd $249

VECTOR RESEARCH

VT-185 Belt-Drive Turntable
Features quick-start DC-servo motor; traditional plug-in head-shell with standard 0.5" mounting centers; front-panel controls; aluminum-alloy

platter; auto-return and shut-off; auto-start function; separate pitch controls for 33 and 45 rpm (± 3%); strobe. W&F 0.05% wrms; S/N 68 dB (DIN B). 17.38" w x 4.5" h x 14.63" d; 11.5 lb $150

VT-155 Belt-Drive Turntable
Features DC-servo motor; P-mount cartridge compatibility; front-panel controls; aluminum-alloy platter; auto-return and shut-off; pitch control; strobe; 8.75 lb $100

YAMAHA

PF-800B Semiautomatic Turntable
Belt-drive pivoted-arm turntable with dynamic balance twin-pipe tonearm. Features 2-section zinc plus aluminum platter; 33.33 and 45 rpm speeds; variable speed control ± 6%. W&F 0.023% wrms; rumble 80 dB; effective tonearm length 8.75"; 35 lb $519

TT-500U Automatic Turntable
Direct-drive turntable with RS integrated remote system compatibility. Features straight tonearm design; resonance absorbing turntable mat; disc clamper. Black; 15 lb $229

PF-50B Automatic Turntable
Direct-drive turntable with 3-point floating suspension and knife-edge dynamic-balance tonearm. P-mount compatible; 33.33 and 45 rpm; resonance-absorbing mat; disc clamper/EP adaptor; overhang adjustment gauge. W&F 0.15% wrms; S/N 78 dBA; 9 lb, 14 oz $229
PF-30B. Similar to PF-50 except belt-drive $179
PF-20B. Similar to PF-30 except semiautomatic, standard EP adapter $149

TT-400U Automatic Turntable
Belt-drive; compatible with RS system remote straight tonearm; resonance-absorbing mat; disc clamper. Black; 15 lb $179

TT-300U Semiautomatic Turntable
Belt-drive; straight tonearm design; resonance-absorbing turntable mat; EP adaptor. Black finish; 10 lb $149

SPEAKERS

3D ACOUSTICS

3D610 Surround 5-Piece Speaker System
5-piece phase-conditioned surround-sound speaker system with all matrixing built in to 3D10 magnetically shielded subwoofer. Features 10″ shield dual-wind-voice-coil woofer; 6″ rubber-roll midrange; 1″ cloth-dome foam-encased tweeter. FR 30-20,000 Hz ± 3 dB; min power 30 W rms; max power 150 W rms; sens 88 dB SPL/W/m; imp 16 ohms. Oiled-walnut and black finishes. Subwoofer: 24″ wide x 16″ high x 13.75″ deep; 49 lb, satellites 14″ wide x 8.5″ high x 7.25″ deep; 30 lb/pr $975/system

3D610 System 3-Piece Speaker System
3-piece speaker system with built-in matrixing for 3D phase-conditioned surround sound. Magnetically shielded for near-video placement. Features 10″ dual-wind-voice-coil woofer; 6″ rubber-roll midrange; 1″ cloth-dome foam-encased tweeter. FR 30-20,000 Hz ± 3 dB; min power 30 W rms; max power 150 W rms; sens 88 dB SPL/W/m; imp 8 ohms. Oiled-walnut and black finishes. Subwoofer: 24″ wide x 16″ high x 13.75″ deep; 49 lb, satellites 14″ wide x 8.5″ high x 7.25″ deep; 30 lb/pr $650/system

3D Column Passive-Radiator Speaker
Magnetically sheilded speaker with built-in matrixing for 3D phase-conditioned surround sound. Features 10″ cone passive radiator; 6″ controlled-output rubber-roll woofer; 1″ cloth-dome tweeter. FR 35-20,000 Hz ± 3 dB; min power 25 W rms; max power 150 W rms sens 88 dB SPL/W/m; imp 8 ohms. Tech black with solid walnut finish. 12″ w x 31″ h x 10.5″ d; 42 lb $490/pr

3D Cube Acoustic-Suspension Speaker
Bookshelf 2-way speaker with 7-element low-distortion crossover network. Features 6″ rubber-roll controlled-output cone woofer; 0.75″ polycarbonate-dome ferrofluid-damped tweeter. FR 70-20,000 Hz ± 3 dB; min power 15 W rms; max power 150 W rms; sens 88 dB SPL/W/m; imp 8 ohms. Tech black with solid walnut finish. Mirror-imaged matched pairs. 9.75″ w x 9.75″ h x 9.75″ d; 15 lb ea $240/pr

ACOUSTIC INTERFACE

Sound Prism Speaker
Vented-horn speaker with 24″ x 52″ compression woofer, 13″ x 22″ horn midrange, 7.25″ x 3″ horn tweeter, built-in triamplification (1,500 W/woofer, 300 W/midrange, 100 W/tweeter). Features midrange, tweeter level controls; oiled walnut or oak cabinet. FR 10-10,000 Hz ± 1 dB; sens 105 dB SPL/W/m; crossovers 550 and 5,000 Hz; imp 8 ohms; 72″ h x 27″ w x 36″ d; 500 lb $30,000/pr

Sound Portal Speaker
Vented-horn speaker with 24″ x 32″ compression woofer, 19″ x 7″ horn midrange, 5″ x 5″ horn tweeter. Features midrange, tweeter level controls; oiled walnut or oak cabinet. FR 15-20,000 Hz ± 2.5 dB; crossovers 800 and 5,000 Hz; sens 101 dB SPL/W/m; min power 15 W; imp 8 ohms; 48″ h x 25.5″ w x 24″ d; 175 lb $7,000/pr

Studio Reference Speaker
Vented speaker with 12″ woofer, 15″ x 4″ horn midrange; 5.25 x 2″ horn tweeter. Features midrange, tweeter level controls; oiled walnut or oak cabinet; black cloth grille. FR 22-20,000 Hz ± 2.5 dB; crossovers 880 and 5,000 Hz; sens 98 dB SPL/W/m; mim power 15 W; imp 8 ohms; 48″ h x 18.5″ w x 16″ d; 102 lb $3,180/pr

Professional Series II Speaker
Vented speaker with 12″ woofer; 2″ dome midrange; 1″ dome tweeter. Features midrange and tweeter controls; oiled walnut or oak cabinet; black cloth grille. FR 29-20,000 Hz ± 2.5 dB; crossovers 800 and 6,600 Hz; sens 95 dB SPL/W/m; min power 15 W; imp 8 ohms; 36″ h x 18.5″ w x 16″ d; 80 lb $1,780/pr

Transcendent Speaker
Vented speaker with 12″ woofer, 1.25″ dome midrange/tweeter. Features midrange, tweeter level controls; oiled walnut or oak cabinet; black cloth grille. FR 38-20,000 Hz ± 2.5 dB; crossover 1,900 Hz; sens 94 dB SPL/W/m; min power 15 W; imp 8 ohms; 51 lb $980/pr

Intimate Speaker
Acoustic-suspension speaker with 10″ woofer, 1″ dome tweeter. Features tweeter level control; oiled walnut or oak cabinet; black cloth grille. FR 49-20,000 Hz ± 2.5 dB; crossover 5,000 Hz; sens 93 dB SPL/W/m; min power 15 W; imp 8 ohms; 19″ h x 12″ w x 12″ d; 29 lb $580/pr

Shadow Speaker
Acoustic-suspension speaker with 8″ woofer, 1″ dome tweeter. Features cylindrical cabinet covered with black cloth grille. FR 69-20,000 Hz ± 2.5 dB; crossover 5,000 Hz; sens 91 dB SPL/W/m; min power 15 W; imp 8 ohms; 24.5″ h x 8.75″ d $380/pr

Angstrom Speaker
Acoustic-suspension speaker with 6.5″ woofer, 1″ dome tweeter. Features charcoal enamel cabinet; black cloth grille. FR 78-20,000 Hz ± 2.5 dB; sens 90 dB SPL/W/m; min power 15 W; imp 8 ohms. 12.88″ h x 7.5″ w x 6.5″ d; 9 lb; walnut or oak finish $350/pr
Charcoal-enamel finish $250/pr

Tremor Subwoofer
Vented subwoofer with 2 woofers in separate subenclosures. Features oiled walnut or oak cabinet; black cloth grille. FR 29-200 Hz ± 2.5 dB; sens 96 dB SPL/W/m; min power 15 W; imp 8 ohms; 27″ h x 63.5″ x 16″ d; 150 lb ..... $1,090 ea
With 2 800 W/ch amps ..... $1,790 ea

ACOUSTAT

Model Eight Electrostatic Speaker
Eight-panel vertical-array electrostatic speaker. Min power 50 W x 2; imp 6 ohms; FR 24-20,000 Hz ± 2 dB. 36″ w x 94″ h x 4″ d; total weight of each system 440 lb $5,500/pr

Model Six Electrostatic Speaker
Six-panel vertical-array electrostatic speaker. Min power 50 W x 2; imp 6 ohms; FR 26-20,000 Hz ± 2 dB. 28″ wide x 94″ high x 4″ deep; 340 lb/system $4,500/pr

Spectra 3 Electrostatic Speaker
Three-panel variable-width electrostatic with built-in selectable woofer. Mirror image pair. Min power 70 W; imp 4 ohms; FR 30-20,000 Hz ± 2 dB. 33″ wide x 66″ high x 2″ deep; 220 lb/system $2,995/pr

Spectra 2 Electrostatic Speaker
Two-panel variable-width electrostatic with built-in selectable woofer. Mirror image pair. Min power 70 W; imp 4 ohms; FR 30-20,000 Hz ± 3 dB. 22″ wide x 66″ high x 2″ deep; 180 lb/system $2,795/pr

Model Two + Two Electrostatic Speaker
Four-panel vertical-array electrostatic speaker. Min power 50 W; imp 4 ohms; FR 28-20,000 Hz ± 2 dB. 20″ w x 94″ h x 4″ d; 200 lb/system $2,599/pr

Model Three Electrostatic Speaker
Three-panel curved-array electrostatic speaker. Min power 70 W; imp 4 ohms; FR 30-20,000 Hz ± 2 dB. 28″ w x 72″ h x 4″ d; 196 lb/system $2,199/pr

Model One + One Electrostatic Speaker
Two-panel vertical line-source electrostatic speaker. Min power 70 W; imp 4 ohms; FR 30-20,000 Hz ± 2 dB. 11″ w x 94″ h x 4″ d; 144 lb/system $1,750/pr

Model One Electrostatic Speaker
Single-panel electrostatic speaker with satellite woofer. Min power 75 W; imp 4 ohms; FR 30-18,000 Hz ± 3 dB. 11″ w x 72″ h x 4″ d; 180 lb/system $1,299/pr

ACOUSTIC RESEARCH

MGC-1 Ambience-Subsystem Speaker
Floor-standing acoustic-suspension speaker with delayed ambience subsystem built into enclosure plus MGC-1e control and amplification electronics. Speakers are mirror-imaged pairs consisting of a 4-way passive system and a 2-way active subsystem for delayed ambience radiation. Electronic unit controls system parameters and provides signal processing, delay, and power amplification for delayed ambience subsystem. Main system features two 8″ cone woofers; two 4″ cone lower/midrange drivers; one dual-dome driver with a 1.5″ upper midrange dome and a 0.75″ tweeter dome closely spaced on a single magnet. Delayed-ambience system features 6″ woofer in sub-enclosure; 1″ dome tweeter. FR (3-dB down point, half power) 39 and 32,000 Hz; power range 25-250 W; sens 88 dB SPL/W/m; imp 4 ohms; 26.25″ w x 52″ h x 16.12″ d; 150 lbs; oiled solid and walnut veneers $3,600/pr

MGC-2 Ambience-Subsystem Speaker
Floor-standing acoustic-suspension speaker with delayed ambience subsystem built into enclosure plus MGC-1e control and amplification electronics. Speakers are mirror-imaged pairs consisting of a 3-way passive system and an active subsys-

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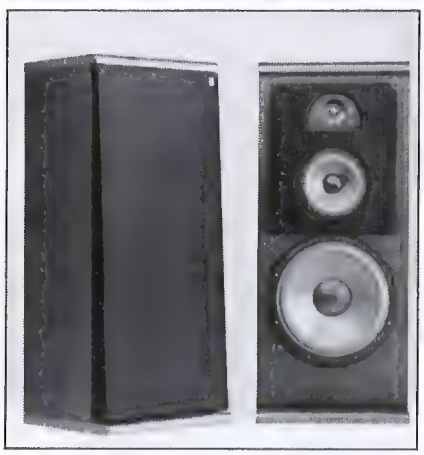
tem for delayed ambience radiation. Electronic unit controls system parameters and provides signal processing, delay, and power amplification for delayed ambience subsystem. Main system features one 12" polypropylene woofers; two 4" polypropylene cone midranges; 1" titanium dome tweeter. Delayed-ambience system features one 6.5" polypropylene bass-midrange driver. FR (3-dB down point, half power) 39 and 27,000 Hz; power range 25-200 W; sens 88 dB SPL/W/m; imp 4 ohms $2,000/pr

TSW-910 4-Way Speaker
Floor-standing columnar acoustic-suspension speaker with tetra-helix tweeter mounting plate. Features two 12" woofers (one front-firing, one rear-firing); 8" lower-midrange driver; two 6.5" midranges; 1" titanium-dome liquid-cooled tweeter with acoustic lens; split crossover network. Power range 35-400 W; imp 4 ohms; FR −3 dB (half-power) points at 28 Hz and 32,000 Hz. 15.75" w x 52.81" h x 18.5" d $2,000/pr

TSW-810 3-Way Speaker
Floor-standing columnar acoustic-suspension speaker with tetra-helix tweeter mounting plate. Features two 10" woofers (one front-firing, one rear-firing); two 6.5" midranges; 1" titanium-dome liquid-cooled tweeter with acoustic lens; split crossover network. Power range 25-250 W; imp 4 ohms; FR −3 dB (half-power) points at 33 Hz and 32,000 Hz; sens 90 dB with 2.83 V rms input at 1 meter on axis. 15.75" w x 42.56" h x 18.5" d; 95 lb $1,700/pr

TSW-610 3-Way Speaker
Floor-standing acoustic-suspension speaker with tetra-helix tweeter mounting plate. Features 12" woofer; 6.5" midrange; 0.75" titanium-dome liquid-cooled tweeter with acoustic lens. Power



range 15-175 W; imp 4 ohms; frequency response ± 3 dB (half-power) points at 40 Hz and 40,000 Hz; sensitivity 90 dB with 2.83 V rms input at 1 meter on axis. Solid walnut or oak top and bottom with black-vinyl-veneer cabinet and black cloth grille. 14.06" wide x 32.88" high x 13.31" deep; 57 lb $900/pr

TSW-510 3-Way Speaker
Floor-standing acoustic-suspension speaker with tetra-helix tweeter mounting plate. Features 10" woofer; 6.5" midrange; 0.75" titanium-dome liquid-cooled tweeter with acoustic lens. Power range 15-150 W; imp 4 ohms; FR −3 dB (half-power) points at 44 Hz and 40,000 Hz; sens 90 dB with 2.83 V rms input at 1 meter on axis. Solid walnut or oak top and bottom with black-vinyl-veneer cabinet and black cloth grille. 14.06" w x 30.13" h x 13.31" d; 49 lb $720/pr

TSW-410 3-Way Speaker
Bookshelf acoustic-suspension speaker with tetra-helix tweeter mounting plate. Features 8" woofer; 6.5" midrange; 0.75" titanium-dome liquid-cooled tweeter with acoustic lens. Power range 10-100 W; imp 4 ohms; FR −3 dB (half-power) points at 46 Hz and 40,000 Hz; sens 89 dB with 2.83 V rms input at 1 meter on axis. Solid walnut or oak top and bottom with black-vinyl-veneer cabinet and black cloth grille. 12.31" w x 24.5" h x 11.72" d; 30.5 lb $560/pr

TSW-310 2-Way Speaker
Floor-standing acoustic-suspension speaker with tetra-helix tweeter mounting plate. Features 10" woofer; 0.75" titanium-dome liquid-cooled tweeter with acoustic lens. Power range 10-100 W; imp 6 ohms; FR −3 dB (half-power) points at 45 Hz and 40,000 Hz; sens 90 dB with 2.83 V rms input at 1 meter on axis. Solid walnut or oak top and bottom with black-vinyl-veneer cabinet and black cloth grille. 12.31" w x 27.75" h x 11.72" d; 35.5 lb $500/pr

TSW-210 2-Way Speaker
Bookshelf acoustic-suspension speaker with tetra-helix tweeter mounting plate. Features 8" woofer; 0.75" titanium-dome liquid-cooled tweeter with acoustic lens. Power range 10-100 W; imp 8 ohms; FR −3 dB (half-power) points at 54 Hz and 40,000 Hz; sens 87 dB with 2.83 V rms input at 1 meter on axis. Solid walnut or oak top and bottom with black-vinyl-veneer cabinet and black cloth grille. 9.81" x 17.56" x 8.4"; 15.3 lb$350/pr

TSW-110 2-Way Speaker
Bookshelf acoustic-suspension speaker with tetra-helix tweeter mounting plate. Features 6.5" woofer; 0.75" titanium-dome liquid-cooled tweeter with acoustic lens. Power range 10-75 W; imp 8 ohms; FR −3 dB (half-power) points at 68 Hz and 40,000 Hz; sens 88 dB with 2.83 V rms input at 1 meter on axis. Solid walnut or oak top and bottom with black-vinyl-veneer cabinet and black cloth grille. 9.81" w x 14.94" h x 8.4" d; 14 lb $260/pr

TSW-100 2-Way Speaker
Bookshelf acoustic-suspension speaker features 6.5" woofer; 1" liquid-cooled tweeter. Power range 10-75 W; imp 8 ohms; FR −3 dB (half-power) points at 72 Hz and 25,000 Hz; sens 89 dB with 2.83 V rms input at 1 meter on axis. Solid walnut or oak top with black-vinyl-veneer cabinet and black cloth grille. 9.81" w x 14.19" h x 8.4" d; 12.3 lb $225/pr

Connoisseur Series
All Connoisseur Series speakers feature woofer and midrange drivers with carbon-loaded polypropylene cones, vertically arrayed drivers, and genuine walnut veneer cabinets.

50T 3-Way Speaker
Floor-standing acoustic-suspension speaker features 12" woofer; 6.5" midrange; 1" titanium-dome tweeter; three inputs for tri-amp operation capability. Power range 15-200 W; imp 4 ohms; FR (−3 dB points) 31-22,000 Hz; sens 90 dB with 2.83 V rms input at 1 meter on axis. 14.63" w x 32" h x 13.13" d; 78 lb $1,150/pr

40T 3-Way Speaker
Floor-standing acoustic-suspension speaker features 10" woofer; 6.5" midrange; 1" titanium-dome tweeter; three inputs for tri-amp operation capability. Power range 15-150 W; imp 6 ohms; FR (−3 dB points) 41-22,000 Hz; sens 88 dB with 2.83 V rms input at 1 meter on axis. 12.63" w x 27.5" h x 13.25" d; 43 lb $860/pr

35T 3-Way Speaker
Bookshelf acoustic-suspension speaker features 8" woofer; 6.5" midrange; 1" titanium-dome tweeter; two inputs for bi-amp operation capability. Power range 10-100 W; imp 6 ohms; FR (−3 dB points) 50-22,000 Hz; sens 88 dB with 2.83 V rms input at 1 meter on axis. 10.81" w x 22.88" h x 10.88" d; 24.2 lb $700/pr

19T 3-Way Speaker
Bookshelf acoustic-suspension speaker features 6.5" woofer-midrange; 1" titanium-dome tweeter; two inputs for bi-amp operation capability. Power range 10-75 W; imp 8 ohms; FR (−3 dB points) 65-22,000 Hz; sens 88 dB with 2.83 V rms input at 1 meter on axis. 10.13" w x 16" h x 6.94" d; 14.5 lb $370/pr

The Subwoofer
Floor-loaded acoustic-suspension subwoofer with crossover. Features two 10" drivers in oiled walnut-veneer cabinet. Power range 15-200 W; sens 87.5 SPL/W/m; imp 4 ohms. 30.88" w x 16.38" h x 18.5" d; 70 lb ..... $630 ea

Partners Series

Powered Partner Speaker
Acoustic-suspension booskshelf 2-way speaker with shielded drivers for use with TV and personal stereo systems. Features built-in equalized amp; on/off switch; volume and tone controls; AC/DC inputs; 4" long-throw woofer; 1" liquid-cooled tweeter. Can be placed on top or near TV, hung on a pole, mounted on wall, or clamped to a shelf with optional clamps. FR 50-25,000 Hz ± 3 dB; imp 10 kilohms. Black aluminum finish. Triangular shape 10.5" w x 6" h x 7.62" d; 7 lb ea $380/pr

Rock Partner 2-Way Speaker
Acoustic-suspension floor-standing or bookshelf speaker with 8" long-throw woofer and 1.25" liquid-cooled cone tweeter. Triangular shaped with versitile mounting placements and options. FR 65-22,000 Hz ± 3 dB; max power 100 W rms; sens 88 dB SPL/W/m; imp 8 ohms. Black vinyl veneer. 9.5" x 14.75" x 8.75"; 15 lb ea ... $280/pr

Environmental Partner 2-Way Speaker
Weather-resistant acoustic-suspension speaker with triangular shape for versatile mounting options. Features 4" long-throw polypropylene woofer; 1" liquid-cooled polymer cone tweeter. Power range 7-75 W; imp 6 ohms; FR 95-25,000 Hz ± 3 dB; sens 88 dB SPL/W/m. Die-cast aluminum case and endcap. 10.5" w x 6" h x 7.63" d; 6 lb ea $280

AR Series

AR1MS Miniature Speaker
Acoustic-suspension speaker with rigid deep-drawn aluminum cabinet. Threaded inserts on rear allow multiple mounting options. 4" cone woofer; 1" dome tweeter. FR 95-25,000 Hz ± 3 dB; power range 7-75 W; sens 95 dB SPL/W/m; imp 4 ohms; satin black finish; 4.75" w x 7.62" h x 4.8" d; 4.5 lb $275/pr

a/d/s/

Monitor Series

M15 Floor-Standing 3-Way Speaker
Vertically aligned "unison" drivers (2 10" woofers and 5.25" midrange in separate subenclosure, 1" dome tweeter); woofers near floor, midrange at top, to control boundary effects; copolymer diaphragms; 4th-order (24 dB per octave) Linkwitz-Riley crossovers at 200 and 2,000 Hz; stainless-steel voice-coil former; magnetic cooling fluid in midrange and tweeter for high power handling and dynamic linearity; frameless perforated-steel grilles; walnut veneer or black. FR 30-22,000 Hz ± 3 dB; sens 89 dB SPL/W/m; imp 8 ohms. 47.3" h x 11.5" w x 15.8" d; 105 lb $2,750/pr

M12. Similar to M15 except 8" woofers; FR 36-22,000 Hz ± 3 dB; sens 88 dB SPL/W/m; 43.3" h x 10.5" w x 14.2" d; 85 lb $1,850/pr
M10. Similar to M12 except 1 10" woofer; 33.7" h x 11.5" w x 13" d; 80 lb $1,350/pr

Compact Monitor Series

CM7 3-Way "Unison" Speaker
7" woofer, 1.5" dome midrange, 1" dome tweeter; copolymer diaphragms; 4th-order Linkwitz-Riley crossovers at 700 and 2,000 Hz; voice-coil formers of stainless steel for woofer and Kapton for midrange and tweeter; magnetic cooling fluid in midrange and tweeter for high power handling and dynamic linearity; enclosure molded from polymer resin filled with metallic mineral for high density and inertness; frameless perforated steel grille. Black or white. FR 40-22,000 Hz ± 3 dB; sens 87 dB SPL/W/m; imp 4 ohms; 16.4" h x 8.8" w x 10.9" d; 45 lb $1,350/pr
CM6. Similar to CM7 except 2-way, with 6" woofer and 1" tweeter; 2,000-Hz crossover; FR 50-22,000 Hz ± 3 dB; 12.7" h x 7.3" w x 8.9" d; 33 lb $850/pr
CM5. Similar to CM6 except 5.25" woofer; FR 65-22,000 Hz 3 dB; sens 86 dB SPL/W/m; 9.7" h x 5.7" w x 6.9" d; 22 lb $500/pr

L Series

L990 3-Way Tower Speaker
Floor-standing speaker with drivers vertically aligned and positioned for optimum imaging and control of floor reflections. 10" Stifflite woofer, 1.5" woven soft-dome midrange, 0.75" woven soft-dome tweeter; 12-dB-per-octave all-pass crossovers at 700 and 4,000 Hz; Kapton voice-coil formers and magnetic cooling fluid in midrange and tweeter; frameless perforated steel grille; black or oak veneer. FR 38-25,000 Hz ± 3 dB; sens 87 dB SPL/W/m; imp 8 ohms; 34.7" h x 10.5" w x 11.7" d; 65 lb $975/pr

L780 3-Way Bookshelf Speaker
Acoustic-suspension speaker with 8.25" high-compliance long-excursion Stifflite cone woofer, 1.5" soft-dome midrange, 0.75" magnetic-cooling-fluid soft-dome tweeter and midrange; diffraction-corrected and flush-mounted drivers. Black perforated-steel grille. FR 42-27,000 Hz ±3 dB; crossovers 650 and 5 kHz; sens 88 dB SPL/W/m; max power 125 W; nominal imp 8 ohms; 20.88" h x 12.25" w x 10.5" d; walnut or black $749/pr

L690 2-Way Tower Speaker
Floor-standing speaker with drivers vertically aligned and positioned for lobe-free wide dispersion. 8" Stifflite woofer, 0.75" woven soft-dome tweeter; 12-dB-per-octave all-pass crossover at 2,000 Hz; Kapton voice-coil former and magnetic cooling fluid in tweeter; frameless perforated steel grille; black or oak veneer. FR 44-20,000 Hz ± 3 dB; sens 88 dB SPL/W/m; imp 8 ohms; 31.1" h x 9.5" w x 10.5" d; 45 lb $590/pr

L570 2-Way Bookshelf Speaker
Acoustic-suspension speaker with 8" Stifflite woofer and 1" soft-dome tweeter. Features self-resetting solid-state tweeter protector; high-grade finish with removable black convex-steel grille; FR 46-20,000 Hz ± 3 dB; crossover at 1,800 Hz; sens 88 dB SPL/W/m; nominal imp 8 ohms; 20" h x 11.62" w x 10.12" d; oak veneer or black $499/pr

Miniature Speakers

300W 2-Way Acoustic-Suspension Speaker
5.25" high-compliance, long-excursion Stifflite woofer, 1" soft-dome tweeter; diffraction-corrected flush-mounted drivers; walnut-veneer cabinet with radius-edged solid-walnut corner inserts, acoustically transparent black metal grille. FR 65-20,000 Hz ± 3 dB; crossover 2,000 Hz with 12-dB/octave slope; sens 89 dB SPL/W/m; power rating 50 W nominal, 75 W peak program; imp 4 ohms; 8.62" h x 6.88" d x 6.88" w. In pairs only $399/pr

300CC 2-Way Acoustic-Suspension Speaker
5.25" high-compliance long-excursion Stifflite woofer, 1" soft-dome tweeter. Features aluminum enclosure (black textured urethane with convex-steel grille). Available on special order in 6 custom colors with matching grilles and brackets (black, light grey, dark grey, beige, mocha, white). FR 65-20,000 Hz ± 3 dB; crossover 2,000 Hz with 12 dB/octave slope; sens 89 dB SPL/W/m; rated input 50 W continuous; imp 4 ohms. 8.36" h x 5.88" w x 5.75" d $380

200CC 2-Way Acoustic-Suspension Speaker
4" high-compliance ultra-long-excursion woofer, 1" soft-dome tweeter; brushed-aluminum enclosure (textured urethane with convex-steel grille). Available on special order in 6 custom colors with matching grilles and brackets (black, light grey, dark grey, beige, mocha, white). FR 85-20,000 Hz ± 3 dB; crossover 2,000 Hz with 12 dB/octave slope; sens 88 dB SPL/W/m; rated input 30 W continuous; min input 5 W; imp 4 ohms. 6.88" h x 4.25" w x 4.75" d $290

ADVENT

The Advent Maestro
Acoustic-suspension floor-standing speaker with solid-pecan top and base with beveled edges, anti-diffraction baffle cover, and grille with rounded side edges. Features 10" black cone and surround woofer; 2" mica-filled black polypropylene-dome

midrange in subenclosure; 1" ferrofluid-filled soft-dome tweeter. FR 40-23,000 Hz ± 2.5 dB; min power 150 W rms; max power 750 W peak; sens 90 dB SPL/W/m; imp 6 ohms. 50 lb; 33.25" h x 16" w x 9.75" d $700/pr

The Advent Legacy
Acoustic-suspension floor-standing liquid-cooled speaker with solid-pecan top and base with wrap-around grille. Features 10" high-excursion cone woofer with aluminum-coil form; 1" ferrofluid-filled soft-dome tweeter. FR 42-23,000 Hz ± 3 dB; min power 100 W rms; max power 500 W peak; sens 88 dB SPL/W/m; imp 8 ohms. Black texture vinyl finish over dense fiberboard. 46.5 lb; 28.25" h x 16" w x 9.75" d $399/pr

Prodigy Speaker
Liquid-cooled floor-standing speaker with solid-pecan endcaps and wrap-around grille. Features 8" high-excursion surround woofer with aluminum voice coil; 0.75" ferrofluid-filled soft-dome tweeter with complex crossover network. FR 48-22,000 Hz ± 3 dB; min power 75 W rms; max peak power 300 W; sens 87 dB spl/W/m; imp 8 ohms. 13" w x 22" h x 8.62" d; 22 lb.. $299/pr

The Baby Advent
2-way speaker with 6.5" woofer and 1.75" ferrofluid cone tweeter. FR 60-25,000 Hz ± 3 dB; imp 8 ohms; sens 87 dB spl/W/m; max power >150 W peak; 11" wide x 16.5" high x 6.75" deep; 13 lb $198/pr

ALLISON ACOUSTICS

Prices slightly higher in the West.

IC-20 Image-Control Speaker
Triangular acoustic-suspension tower speaker with 1 side facing wall, 1 side facing in, 1 facing out; each side facing away from wall has 10" woofer, 4 3.5" convex midranges, 4 1" convex tweeters; relative balance of mids and tweeters on each panel may be adjusted by remote control or with switch on rear to direct more sound in (for precise imaging with more direct and less reflected sound), out (for open and spacious ambience with more reflected and less direct sound), left, right, or centered (for equal amplitude at off-center listening positions); level of each panel has 3 possible settings; LED's on center of speaker display setting; drivers positioned to minimize room interaction; inside woofer pointed into cabinet, outside woofer pointing out; separate inputs for woofers and for mids and tweeters for easy biamping; auto-resetting resistors in each crossover; cabinet panels 0.75"-1.25" thick, braced front-to-back and between panels; interior damped with glass fiber; passive parallel half-section crossovers at 350 and 3,750 Hz; oak, walnut, or black. FR −3 dB at 28.5 Hz, −8 dB at 21 Hz; imp 6 ohms nominal, 8 average, 5 min; power range 30-400 W/ch; sens 87 dB SPL/2.83 V/m; 21" w x 48" h x 12" d; 100 lb $4,900/pr

CD9 3-Way Floor-Standing Speaker
Stabilized-radiation-loading speaker with 10" woofer, 3.5" convex-diaphragm midrange, 1" convex-diaphragm tweeter, designed for placement against single wall. LC half-section crossover network; switches to select system acoustic power response (flat to concert-hall balance slope); walnut or oak-veneer cabinet with hand-rubbed lacquer finish; steel base. FR down 3 dB at 35.5 Hz; crossovers 350 and 3,750 Hz; imp 4 ohms; efficiency 0.7% at floor/wall intersection; power range 30-200 W; 37.5" h x 12 .5" w x 10 .75" d $1,100/pr

CD8 3-Way Floor-Standing Speaker
Stabilized-radiation-loading speaker with 8" woofer, 3.5" convex-diaphragm midrange, 1" convex-diaphragm tweeter. LC half-section crossover network with switches to select system acoustic power response from flat to concert-hall slope. Walnut- or oak-veneer cabinet with hand-rubbed lacquer finish. Crossover frequencies 450 and 3,750 Hz; efficiency 0.7%; power range 30-200 W; response −3 dB at 39 Hz; 28.62" h x 10.5" w x 10.5" d. $790/pr

CD7 2-Way Floor-Standing Speaker
Stabilized-radiation-loading speaker with 8" woofer, 1" convex-diaphragm tweeter, designed

The listings are based on data provided by the manufacturers. For more product information, contact an authorized dealer or the manufacturer directly. Manufacturers' addresses and phone numbers are listed in the directory beginning on page 226.

for placement against single wall. LC crossover network with premium chokes, computer-grade capacitors; walnut- or oak-veneer cabinet with hand-rubbed lacquer finish. Crossover 2,000 Hz; response −3 dB at 41 Hz; imp 4 ohms; power range 15-150 W; 26.5″ x 9.62″ x 9.62″. $500/pr
CD6. Same as CD7 except for wall or shelf mounting; response −3 dB at 46.5 Hz; 11.25″ h x 11.25″ w x 11.25″ d $390/pr

Series LC 100 Speakers
2-way stabilized-radiation-loading speakers which perform optimally standing on floor away from walls. All have walnut-grain vinyl cabinet and Allison convex-diaphram 1″ tweeter; LC crossover network with 2 chokes and premium capacitors. Crossover at 2,000 Hz; sens 90 dB SPL/2.83 V/m; power range 15-150 W.

LC 120. 8″ woofer; response −3 dB at 41 Hz. 21.75″ h x 13.75″ w x 7.5″ d..... $320/pr
LC 110. 8″ woofer; resonance −3 dB at 46.5 Hz. 18″ h x 11.5″ w x 7.5″ d $260/pr

ALTEC LANSING

501 3-Way Tower Speaker
Acoustic suspension speaker system with 2 10″ carbon fiber woofers; 2″ midrange; 1″ dome tweeter each with polymide vacuum-deposited titanium. power range 150 W nominal 300 W max; sens 93 dB W/m; imp 4 ohms; 46″ h 12″ w x 13.5″ d $1,500/pr

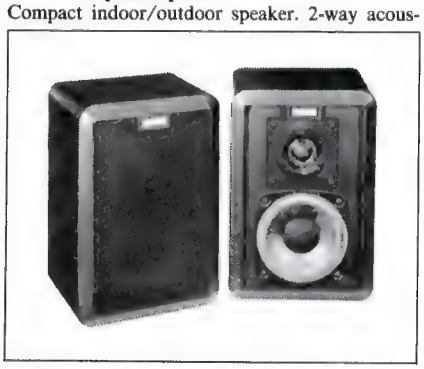
508 3-Way Tower Speaker
Acoustic suspension with 2 8″ woven carbon fiber cones, 2″ midrange, 1″ tweeter, each with polymide vacuum-deposited titanium housed in walnut veneer high-density pressed-wood cabinet. FR 40-20,000 Hz ± 3 dB, SPL 90.5 dB W/m; power handling nominal 125 W, max 250 W, recommended min 10 W; imp 4 ohms; 40″ h x 11″ d x 10.75″ w $1,000/pr

401 3-Way Acoustic-Suspension Speaker
12″ carbon fiber woofer; 2″ midrange; 1″ tweeter. Power range 125 W nominal 250 W max; sens 93 dB W/m; imp 8 ohms; 32″ h x 17″ w x 12″ d $960/pr
301. Similar to above with 8″ woofer. 27″ h x 14.5″ w x 12″ d $750/pr

201 2-Way Speaker
Acoustic suspension speaker with 8″ carbon fiber woofer and 1″ polymide/titanium tweeter. Power range 75 W nominal, 150 max; sens 91 dB W/m; nom imp 6 ohms. 22″ h x 12″ w x 9″ d $500/pr

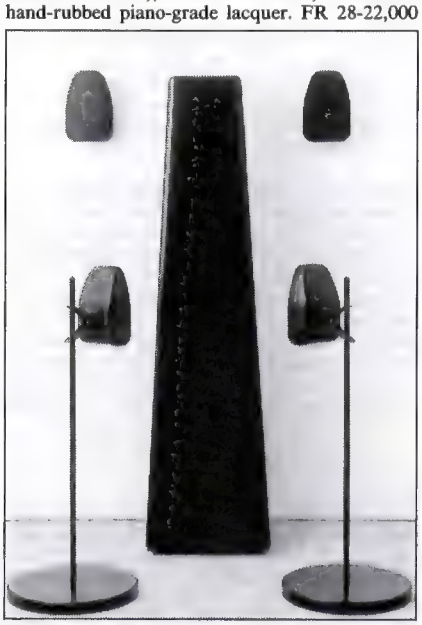
101 Bookshelf Speaker
2-way acoustic-suspension speaker with 6″ carbon fiber woofer and 1″ polymide/titanium tweeter. Power range 50 W nominal, 100 W max; sens 91 dB SPL/W/m; nom imp 6 ohms; 17″ h x 9.5″ w x 8.5″ d $340/pr

55 Weatherproof Speaker
Compact indoor/outdoor speaker. 2-way acoustic-suspension speaker with 4″ carbon fiber cloth woofer reinforced with epoxy and a 20-mm polymide dome tweeter. FR 85-20,000 Hz ± 3 dB; power range 40 W nominal, 80 W max; imp 4 ohms; 9.38″ h x 7″ w x 5.31″ d..... $250/pr



AMBRIA by PARASOUND

S-2000 5-Piece System
Subwoofer obelisk with 6 drivers; 4 satellite 2-way speakers (for pole, wall, ceiling mount with Ambria fixtures); black or white; subwoofer hand-rubbed piano-grade lacquer. FR 28-22,000



± 3 dB; sens 92 dB; imp >4 ohms with up to 10 satellites; subwoofer 12″ x 12″ at base, 46″ h $1,750/system
S-1000. Similar to S-2000 except 3 pieces; subwoofer obelisk has 4 drivers; 2 satellite speakers. FR 35-22,000 ± 3 dB; imp >4 ohms up to 6 satellites. Subwoofer 9″ x 9″ at base, 35″ h $900/system
S-100. Extra satellite speakers for S-1000 and S-2000 systems. Black or white $335/pr

S-150 2-Way Link Speaker
Molded enclosure; volume control. FR 70-22,000 Hz ± 3 dB; sens 92 dB $495/pr

AMERICAN ACOUSTICS

PSW-200 Powered Subwoofer
Fifth order crossover network with parametric EQ. LED display and individual gain, frequency, and boost controls. 15″ vented; 15″ polymer coated; 2″ voice coil; FR 28-80 Hz; user adjustable sens; power handling 400 W/rms;19.5″ h x 22.5″ w x 18.75″ d $700

9500B Tower Speaker
Vented 4-way floor standing speaker with 12″ polymer coated woofer; 8″ polymer mid bass; 2-5″ polymer midrange; 1 soft dome polymer, 1 3″ cone tweeter. FR 32-22,000 Hz; sens 99.5 dB W/m; imp 4/8 ohm; crossover frequency 600 Hz, 1,700 Hz, 6,000 Hz; power handling 205 W/rms, 410 W peak; 40.88″ h x 15.94″ w x 14.56″ d $1000/pr

8550 3-Way Speaker
Vented speaker with 15″ polymer coated woofer; 5″ sealed back ferrofluid damped midrange; soft dome polymer ferrofluid tweeter. FR 37-22,000 Hz; sens 98.5 dB W/m; imp 4/8 ohm; crossover frequencies 700 Hz, 5,000 Hz; power handling 205 W rms, 410 W peak; 30.38″ h x 18.5″ w x 14.5″ d $980/pr

5550 4-Way Speaker
Vented design with 15″ polymer coated woofer, 5″ sealed back ferrofluid midrange; soft dome polymer ferrofluid tweter, 3″ come ferrofluid tweeter. FR 43-22,000 Hz; sens 96.5 dB W/m; imp 4/8 ohm; crossover frequency 1,700 Hz, 6,000 Hz; power handling 120 W/rms, 240 W/peak; 27″ h x 15.5″ w x 10.25″ d $750/pr

4550 3-Way Speaker
Vented design with 10″ polymer woofer; 5″ sealed back ferrofluid midrange; soft dome ferrofluid tweeter. FR 45-22,000 Hz; sens 95.5 dB W/m; imp 4/8 ohm; power handling 80 W/rms, 160 W/peak; 24″ h x 15″ w x 10″ d $550/pr

3550 Bookshelf Speaker
2-way vented design with 8″ polymer woofer; soft dome polymer ferrofluid damped and cooled tweeter. FR 60-22,000 Hz; sens 94.5 dB W/m; imp 4/8/ ohm; power handling 45 W/rms, 90 W/peak18.5″ h x 11.25″ w x 8″ d $340/pr

2550 Bookshelf Speaker
2-way vented bookshelf speaker with 6.5″ polymer woofer; soft dome polymer ferrofluid tweeter. FR 65-22,000 Hz; sens 91.5 dB W/m; imp 4/8 ohm; power handling 40 W/rms, 80 W/peak; 12.75″ h x 9.38″ w x 7″ d $260/pr

APOGEE ACOUSTICS

Apogee Full-Range Ribbon Speaker
Full-range ribbon speaker with seamless crossover. Features steel framework; trapezoidal woofer panel; 0.5″ tweeter ribbon; 2″ midrange ribbon. SPL 115 dB; imp 4 ohms. 80.5″ h x 35″ w x 4″ d; 300 lb ea $8,000/pr

Diva 3-Way Ribbon Speaker
Full-range ribbon speaker with adjustable seamless crossover. Features trapezoidal woofer ribbon; separate midrange and tweeter ribbons. SPL 115 dB; imp 4 ohms. 73″ h x 31″ w x 3″d ;150 lb ea $7,000/pr

Scintilla Full-Range Ribbon Speaker
Full-range ribbon speaker with internal seamless crossover. Features trapezoidal woofer ribbon; integrated, coalescent midrange/tweeter ribbon that utilizes filed magnetic and electromagnetic constraints. SPL 110 dB; imp 4 or 1 ohms. 57″ h x 30″ w x 3.5″ d; 140 lb ea $3,780/pr

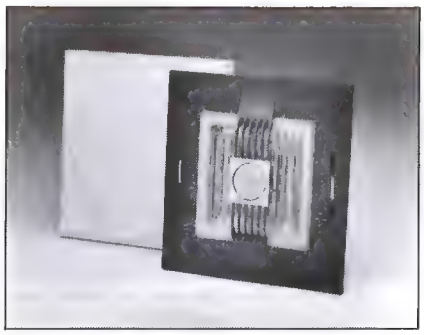
Duetta 2-Way Ribbon Speaker
Mid-size 2-way full-range ribbon speaker. Utilizes ribbon transducers for both midrange/tweeter and woofer. Features trapezoidal woofer ribbon; combination midrange/tweeter ribbon; internal seamless crossovers. SPL 100 dB; imp 4 ohms. 58″ h x 26″ w x 3″ d; 115 lbs ea $2,780/pr

Caliper 2-Way Ribbon Speaker
Mid-size 2-way full-range ribbon speaker. Features trapezoidal woofer ribbon; narrow-canted combination midrange/tweeter ribbon; seamless crossover circuitry. SPL 105 dB; imp 3 ohms. Taupe or grey finish. 48″ h x 24″ w x 2″ d; 70 lb ea $1,995/pr

ART AUDIO by OWI

2300-FX Weatherized Speakers
Wall-mount 2-way weatherized flat-wave system. Imp 4 ohm; power capacity 30-60 W; woofer ap-

For explanations of abbreviations, specifications, and technical terms, consult the glossary on page 221.



prox 5" x 5" flat wave; strontium magnet; tweeter approx 1.5" Dyna-ribbon. Available in ivory or black; 9" h x 9" w x 1.5" d; 2.6 lb/ea . $320/pr

DX-7 Compact Powered Speaker
10-W/ch speakers with 4 surround sound selections (stereo, music/movie, delay) enclosed in die cast aluminum; THD 1% at 10.5 W; 3 amp fuse protection. Speaker section 4" full range; SPL 88 dB/W/m; imp 3 ohm $200/pr

BAW-103 Weatherized Mini Speaker
Indoor/outdoor 3-way system 4" polypropylene woofer; 2" mylar tweeter; 0.5" mylar tweeter. Power capacity 50 W/rms, 100 W max; imp 8 ohm; sens 92 dB W/m; available in cream or black; 7" h x 4.5" w x 4" d; 10 lb/pr .. $160/pr
BAW-50. Similar to BAW-103 above except 2-way design $140/pr

BA-200 Compact Speaker
Compact 2-way bookshelf speaker with 4" cone woofer; 1" soft dome tweeter enclosed in black aluminum diecast enclosure. Imp 8 ohm; power capacity 30-50 W/rms; sens 85 dB W/m. 7" h x 4.5" w x 4" d; 10 lb/pr..... $140/pr

BA-402 Compact 3-Way Speaker
4" cone woofer; 2" cone tweeter; 0.5" super dome tweeter. Power capacity 50 W/rms, 100 W max; imp 8 ohm; sens 91 dB W/m. Available in black, cream, yellow, red. 7" h x 4.5" w x 4" d; 10 lb/pr..... $140/pr
BA-101. As above except 2-way design . $120/pr

ATC LOUDSPEAKER

SCM-50 Speaker
Bass-reflex floor-standing near-field studio control monitors with drivers employing soft domes, short voice coils in long magnetic gaps, high-flux density, dual suspensions, and cast frames for low distortion and high SPL. Features 9" cone woofer; 3" soft-dome midrange; 1" dome tweeter. FR 45-18,000 Hz ± 3 dB, 80-12,000 Hz ± 2 dB; min power 50 W rms; max power 500 W rms; sens 85 dB SPL/W/m; imp 8 ohms. Oak and black standard finishes. 12" w x 28" h x 16" d; 85 lb ea..... $3,300/pr
SCM-50A. Similar to SCM50 except contains 3-way modified 2nd-order active filter with phase correction driving 3 amps (200-W bass, 100-W mid, 50-W highs). Overload protection by active FET momentary gain reduction plus tweeter thermal protection by light distinguishing resistor (LDR). Well balanced continuous SPL of 112 dB with substantial transient headroom. 12" w x 28" h x 16" d; 95 lb ea..... $5,500/pr
SCM-100. Similar to SCM50 except 12" cone woofer. Sens 88 dB SPL/W/m, max continuous sound-pressure level 115 decibels plus transient headroom; frequency response 35-18,000 Hz ± 3 dB, 60-12,000 Hz ± 2 dB. 16" w x 33" h x 19" d; 115 lb ea..... $4,200
SCM-100A. Similar to SCM50A except 12" cone woofer, max continuous SPL 115 dB plus transient headroom. 16" w x 33" h x 19" d; 125 lb ea..... $6,400/pr

AUDIOSOURCE

LS-Nine Speaker
Box speaker intended for bookshelf placement. Features L-C crossover at 3.5 kHz. Contains 8" polypropylene woofer; 1" tweeter. FR 65-20,000 Hz ± 3 dB; max power 80 W; sens 88 dB; imp 6 ohms; white oak with cloth grille; 17.62" w x 11.36" h x 8.31" d $320/pr

LS-Seven Speaker
2-way compact speaker with 6.5" polywoofer 1" soft-dome tweeter, wood enclosure. FR 70-20,000 Hz; max power 60 W; imp 8 ohms; sens 87 dB SPL/W/m; L-C crossover at 2 kHz; genuine white-oak veneer, cloth grille; 8.88" w x 13.62" h x 6.44" d; 7 lb $260/pr

LS-One Speaker
Acoustic-suspension 2-way speaker with 4" polypropylene woofer, 1" tweeter. FR 100-20,000 Hz; power range 12-40 W; imp 8 ohms; sens 87 dB SPL/W/m; crossover 2.5 kHz; black cast-aluminum enclosure with metal grille, bracket included; 7.12" h x 4.5" w x 4.561" d; 5.5 lb $180/pr
LS-One Walnut. Walnut veneer 8" x 5" x 4.69" $200/pr
LS-One W/T. Weathertight, stainless-steel grille and bracket $200/pr

AUDIO PRO BY SONIC RESEARCH

A4-14 Biamplified Speaker System
Biamplified 3-way bass-reflex bookshelf speaker incorporates Ace-Bass subwoofer with two 5" down-firing rear-mounted woofers and own amp, flush-mounted 4.5" cone midrange, 1" soft-dome tweeter with separate amp. Features room-matching bass control, tweeter control, sens control (100 mV-50 V range), L/R signal pushbutton, bass-blend push-button control, power on/off signal-actuated in automode; walnut or black-ash finish; speaker stands included. FR 30-20,000 Hz ± 2 dB; crossovers 300 and 2.5 kHz; distortion 2% at 96 dB SPL/half-space/m at 30 Hz; 20.5" h x 2.12" w x 10.5" d..... $2,095/system

A2-2 Mini Powered Speaker
Mini speaker with Ace-Bass and Ace-Plus circuits in each channel. Includes volume control, three line inputs and tape output on amp carrying case. FR 50-20,000 Hz; sens 99 dB SPL/W/m. Glossy lacquer finish available in white, black, red or grey. 8.25" h x 5.5" w x 4.13" d; 22 lb$1195/system

A2-1 Mini Powered Speaker
Mini powered speaker with Ace-Bass and Ace-Plus circuits. Includes volume control and tape output on amp carrying case. FR 50-20,000 Hz; sens 99 dB SPL/w/M. Glossy lacquer finish available in white, black, red or grey. 7.5" h x 4.75" w x 3.75" d; 18 lb $895/system

3-40 Passive Speaker
Floor-standing 2-way speaker with two 8" cone woofers and 1" soft-dome tweeter. FR 43-20,000 Hz ± 3 dB; min power 25 W rms; max power 125 W rms; sens 92 dB SPL/W/m; imp 6 ohms. Walnut, black ash, or white laquer finish. 12" w x 24" h x 11" d $648/pr

2-25 2-Way Speaker
Features 1" soft-dome tweeter; 8" midrange woofer. FR 50-20,000 Hz −3 dB; crossover at 2,000 Hz; imp 4 ohms 20.25" x 11.25" x 10.25"; sens 90 dB SPL/W/m; walnut finish $549/pr

Amplified Subwoofers

B4-200. Super subwoofer features 4 long-throw 8" woofers; built-in 150-W amp giving 110 dB SPL from 20-200 Hz "1.5 dB; active variable crossover; sens control; soft-clipping circuit; 44.5" h x 21.5" w x 21.5" d; walnut $3,295
B2-70. FLoor-standing subwoofer with two 8" cone woofers, built-in 80-W amp, and active variable crossover. FR 20-200 Hz ± 3 dB; 103 dB SPL from 20-200 Hz ± 1.5 dB. Walnut, black ash, or white lacquer. 20" w x 24" h x 17" d . $1,424 ea
B-145. Floor-standing subwoofer with 10" cone woofer and built-in 40-W amp. FR 30-200 Hz ± 3 dB; 102 dB SPL from 30-200 Hz ± 1.5 dB. Walnut, black ash, or white lacquer finish. 14.75" w x 20.25" h x 14.75" d; 48 lb..... $875/ea

BANG & OLUFSEN

Beolab Penta Floor-Standing Speaker
Powered 5-sided bass-reflex speaker with 150-W amp in each cabinet; 9 drivers in 3-way configuration (4 5" woofers, 4 3" mids, 1 1" dome tweeter vertically aligned); dynamic clipping attenuator for compression; 3-position bass-level switch; auto turn on and off; when used with Beosystem 5500, digital display shows source, volume, recording status, overload; finished in brushed stainless steel with black grille. Frequency response 40-20,000 Hz +4, −8 dB; 65" high x 5" wide x 5" deep; 53 lb $2,999/pr

RL 140 Speaker
Floor-standing bass-reflex speaker with 2 6.5" woofers, 5" mid, 1" dome tweeter in gray plastic enclosure with black grille. Frequency response 40-20,000 Hz +4, −8 dB; sensitivity 93 dB SPL/W/m; minimum power 10 W; imp 8 ohms; 28" x 20" x 9"; 43 lb $900/pr

Beovox S-80.2 Speaker
3-way speaker in infinite-baffle cabinet with 8" woofer, 3" dome phase-link midrange, 1" tweeter; baffle moldings designed for min diffraction; vertically aligned drivers; auto driver protection; rosewood veneer (other finishes available). Max power 80 W rms; dispersion 100°..... $700/pr

RL 60.2 Speaker
Floor-standing speaker with 1" dome tweeter, 2 5" cone woofers, aluminum passive radiator; charcoal black. FR 45-20,000 Hz +4, −8 dB; power range 10-90 W; sens 93 dB SPL/W/m; imp 8 ohms; 21.25" w x 16" h x 7" d; 19.6 lb $500/pr

Beovox CX100 Compact Speaker
Black or brushed aluminum bookshelf box speaker with 2 4" woofers, 1" dome tweeter. Power range 10-110 W; sensitivity 89 dB sound-pressure level with 1-W input measured at 1 m; imp 6 ohms; 4" w x 12" h x 8" d; 13.5 lb $350/pr
Beovox CX50. Black finish; 8 lb $250/pr

B&W LOUDSPEAKERS

808 Ported Speaker
Floor-standing speaker with two 300-mm thermoplastic cone woofers, two 100-mm polyamide matrix-cone midranges, 32-mm polyamide dome tweeter. Features computer-optimized drivers and cabinet; Audio Powered Overload Circuit; 4th-order Butterworth crossover; sep terminals for bi and triamping. FR 30-20,000 Hz ± 2 dB; min power 100 W; sens 91 dB SPL/W/m; imp 8 ohms; walnut, or black ash finish; 25.75" w x 41.25" h x 20" d; 180 lb $7,500/pr
Rosewood finish $9,500/pr

Matrix 801 Series 2 Speaker
Floor-standing 6th-order Butterworth-vented speaker with vertically aligned drivers to minimize time delays; APOC to prevent driver damage. FR 20 Hz-20 kHz ± 2 dB; imp 8 ohms; power range 50-600/W. 39.75" x 17" x 22"; 110 lb ea. Available in walnut or black ash $4,500/pr
Rosewood finish $5,200/pr

CM2 Matrix Mini Tower
Floor standing 4th order Butterworth vented system consisting of CMI head unit crossing over at 150 Hz into subwoofer section forming the stand. B&W matrix enclosure is employed in both stand and head module. APOC system. Imp not less than 4 ohms; power range 50-200 W. 39.19" h x 6.38" w x 8.31" d; Base width 10" x 9.5" d. Finish column-black, white, nextel grey, walnut$1,650/pr
Rosewood finish $1,950/pr

Matrix Series Speakers
All Matrix speakers are acoustic suspension and feature an electronic time delay overload protection, homopolymer polypropylene bass/mid drivers, and ferrofluid-cooled tweeters. Matrix enclosure comprised of a honeycomb structure of interlocking perforated cross members bonded to the outer walls and filled with acoustic foam for resonance-free environment for drivers.

Matrix 3. Floor-standing speaker with two 200-mm cone woofers (one for lower bass and other for bass/mid frequencies); 26-mm polyamide tweeter; heavy magnet assemblies in mid/bass drivers (5 lbs ea). FR 70-25,000 Hz ± 2 dB; min power 25 W rms; no upper power limit due to overload protection; sens 90 dB SPL/W/m; imp 4 ohms. Available in walnut and black ash finishes. 10.25" w x 35.75" h x 16" d; 64 lb $2,198/pr
Rosewood finish $2,698/pr
Matrix 2. Bookshelf speaker with 200-mm cone woofer; 26-mm polyamide dome tweeter. FR 80-25,000 Hz ± 2 dB; min power 25 W rms; no upper power limit due to overload protection; sens 87 dB SPL/W/m; imp 4 ohms. Available in walnut and black ash finishes. 10.25" w x 23.5" h x 12.25" d; 35 lbs $1,498/pr
Rosewood finish $1,798/pr
Matrix 1. Bookshelf speaker with 1500-mm cone woofer, 26-mm polyamide dome tweeter. FR 80-25,000 Hz ± 2 dB; min power 25 W rms; no upper power limit due to overload protection; sens 85 dB SPL/W/m; imp 4 ohms. Available in walnut and black ash finishes. 9" w x 16" h x 12.25" d; 35 lbs $1,098/pr
Rosewood finish $1,398/pr

Digital Monitor Series

DM1800. Features low-density version of Matrix enclosure; finite analysis metal dome tweeter. Larger motor assembly and cabinet enclosure than DM1600. Power rating 30-200 W. 19.25" h x 9.25" h x 11.75" d; 26.5 lb; Black ash or walnut $1,100

DM1600. Features low-density Matrix enclosure; finite-analysis metal-dome tweeter. Power range 30-200 W. 25" h x 9.25" w x16" d; 24.25lb; black ash or walnut $800/pr

DM330i Acoustic-Suspension Speaker
Floor-standing speaker with 8" woofer, 8" bass/midrange driver, 1" polyamide dome tweeter. FR 48-20,000 Hz ± 3 dB; power range 10-100 W; sens 91 dB SPL/W/m; imp 8 ohms; walnut or black ash finish; 11.5"5" x 33.75" x 12.62"; 37.5 lb $720/pr

CM1 Matrix Mini Speaker
Bookshelf model, molded DMC (fiberglass polyester composite) low density matrix enclosure with 5" Kevlar bass driver and new TA301 metal dome tweeter. FR 90-20,000 Hz ± 2 dB; imp 8 ohms; power range 50-200 W. 9.63" high x 6.38" wide x 8.63" deep; 11 lb ea. White black or nextel grey $650/pr

DM220i 3-Way Speaker
Features two 8" drivers (one for lower bass and other for upper bass and midrange frequencies); 1" dome tweeter. Available in American walnut or black ash simulated veneers. Sensitivity 90 dB SPL/W/m;frequency response 53-20,000 Hz; power range 10-75 W rms; useful bass cutoff frequency 45 Hz; distortion <3% 2nd harmonic, <0.5% 3rd harmonic; 26.75" h x 11.4" w x 12.6" d; 30.4 lb $570/pr

LM-1 Leisure Monitor Speaker
2-way mini speaker with colored nextel finishes and protection against overload. For home and car use. Switchable for 8 or 4 ohms. Available in brown, beige, charcoal, black, or red. Min power 10 W; 4" woofer, 0.88' tweeter $538/pr
LM-1/PM. Panel-mount version $478/pr
LM-1/Mar. Marine version, protected against corrosion from salt air and salt water, in enclosure $638/pr
LM-1/PM-Mar. Marine version, protected against corrosion from salt air and salt water, panel mount $578/pr

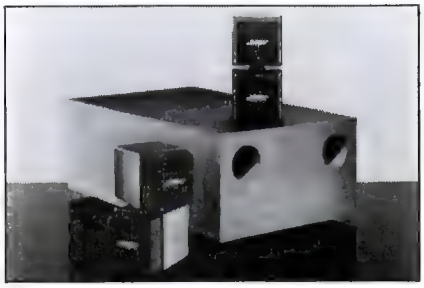
DM110i 2-Way Speaker
Vented speaker with 2 drive units. Features 8" woofer crossed over to 1" dome tweeter via 4th-order Butterworth squared circuit that provides frequency division at 3,000 Hz. Sens 90 dB SPL/W/m; FR 70-20,000 Hz ± 3dB; recommended power 10-75 W rms; 19.3" h x 10.25" w x 9.8" d; 18.5 lb $370/pr

DM100i Acoustic-Suspension Speaker
Bookshelf speaker designed for small rooms. Features laser-optimized drivers; computer-optimized cabinet and crossover network; overload-protected high-frequency driver; 150-mm critically impregnated composite short-fibre-cone woofer; 26-mm polyamide dome tweeter. FR 80-20,000 Hz ± 3 dB; min power 10 W rms; max power 75 W rms; sens 89 dB SPL/W/m; imp 8 ohms. Available in simulated walnut and black ash finishes. 8.75" w 14.5" h x 8.25" d; 12 lbs $278/pr

BOSE

AM-5 Acoustimass Speaker System
Compact 3-piece speaker system with Acoustimass bass module and Direct/Reflecting cube satellites.

The listings are based on data provided by the manufacturers. For more product information, contact an authorized dealer or the manufacturer directly. Manufacturers' addresses and phone numbers are listed in the directory beginning on page 226.



Each satellite has 2 separate cube enclosures that can be used stacked or separated and are switchable for direct or reflecting configuration. The bass module has 2 6.5" woofers in a double-ported enclosure. Features positive temperature coefficient protection circuit; high positive current coefficient resistor to compress overloading input signals. Max input power 165 W. Satellite cube: 3.5" on a side with a 1" extension for the grille. Bass module: 12" w x 20" l x 8" h $699/system

901 Series V Speaker System
Direct/Reflecting acoustic-matrix speaker with Active Equalizer and 8 rear-facing, 1 front-facing 4.5" full-range drivers. Features pentagon-shaped cabinet with multi-cell injection-molded core with particle-board external panels and walnut veneer finish; Active Equalizer with specifically designed fixed EQ; bass shelf control to provide 6 dB of attenuation at 40 Hz; tape monitor switch. Power range 10 W to unlimited; imp 8 ohms; dynamic range 106 dB; noise 90 dB re 1 V (A-wtd); max input 2.1 V rms at 35 Hz. Equalizer 13" w x 4.88" d x 2.75" h. Speaker 21" w x 13" d x 12.36" h. Sold only in stereo pairs (equalizer supplied with each pair) $1,485/pr
Speakers only $1,264/pr
901 Speaker Pedestals. Black or bronze $100/pr

601 Series III Speaker System
Floor-standing Direct/Reflecting with all tweeters and one woofer mounted above main enclosure in Free Space Array configuration for lifelike stereo imaging. Features two 8" Digital Dynamic Range cone woofers; four 3" cone tweeters; subport enclosure system with slotted port. Min power 10 W; max power 200 W; sens 87 dB SPL/W/m; imp 8 ohms. Hardwood veneer with walnut finish. 12.31" w x 30" h x 12.5" d; 45 lbs ... $1,026/pr

501 Series IV Speaker System
Floor-standing Direct/Reflecting speaker system with 2 3" tweeters mounted in Free Space array and a 10" long-excursion woofer. Teak-grain vinyl veneer finish. Crossover 1.5 and 2.5 kHz; power range 20-125 W continuous; nominal impedance 8 ohms; 25" h x 16" w x 14" d. Sold only in stereo pairs $750/pr

401 Speaker System
Floor-standing Direct/Reflecting speaker system with two 6.5" woofers and a 2" magnetic liquid cooled tweeter. Features Stereo Space array design for Stereo Everywhere imaging; column-design enclosure; thermal-system protection circuit; 1.1-cubic-foot ported enclosure for bass down to 35 Hz; max power handling 100 W; nominal impedance 4 ohms $599

301 Series II Speaker System
Direct/Reflecting ported bookshelf speaker system with 8" woofer, 2 3" tweeters in Free Space Array. Features dual-frequency crossover to allow woofer and tweeter to operate simultaneously over nearly a full octave; tweeter protection circuit; particle-board cabinet with walnut-grain vinyl veneer finish. Crossover frequencies 3 kHz woofer, 1.2 kHz tweeter; power range 10-60 W/ch continuous; imp 8 ohms; 17" w x 10.5" h x 9.5" d. Sold only in stereo pairs $422

201 Series II Speaker
Direct/Reflecting bookshelf speaker with Free Field tweeter. Features dual-frequency crossover network; 6″ woofer; 2″ tweeter; auto tweeter protection. Available in rosewood vinyl-veneer finish. Crossover frequencies 1.5 and 2.5 kHz; power range 5-60 W rms; imp 8 ohms; 14.5″ w x 7.75″ h x 9″ d; 9 lb $254/pr

101 Music Monitor
Indoor/outdoor ported speaker. Features high-impact polystyrene copolymer cabinet for environmental applications; 1 4.5″ full-range passive-radiator driver with integrated electronics per enclosure; optional multi-purpose mounting arms and soft plush brackets available at extra cost. Power range 10-60 W; finished in black or white with white, blue, red, or green grilles; 10 lb/pr; 9″ w x 6″ h x 5″ d. Approx $199-219/pr

RM-1 RoomMate Powered Speaker
Pair of speakers with stereo amp in one to accept output of pocket stereo and portable CD player through audio cable. 4.5″ full-range driver with helical voice coils in each speaker. Features active EQ; distortion-limiting circuitry; AC powered. Power supply 25-W transformer; enclosure of structural polypropylene composite. Peak SPL 101 dB with 300-3,000 Hz pink noise at 1 meter. Each speaker 6″ x 9″ x 6″; 10 lb. Black or white finish $229/pr
MMA-2. Mounting arms $40/pr
TB-1. Travel bag $40
WB-10. Wall brackets $20/pr

Video RoomMate Powered Speaker
Bass-reflex bookshelf speaker for use with any VCR, TV, monitor, or LaserDisc player. Features 4.5″ fully shielded full-range helical-voice-coil driver; fully shielded electronic amplification/active-equalization system; dual-tuned ports; 6-ft RCA cable; volume control; mono 4-connector. Gray enclosures with black baffle and silver/gray grille. Input imp 30 kilohms; acoustic output 100 decibels sound-pressure level with 300-3,000 Hz pink noise at 1 meter. 6″ w x 9″ h x 6″ d$279/pr
MM-2. Mounting arms $40/pr
WB-10. Wall bracket $20/pr

Point Two Series

10.2 Speaker
Floor-standing ported speaker with two 8″ cone woofers and two 3″ cone tweeters. Features Stereo Everywhere technology; Stereo Targeting system; automatic system protection; Syncom II computer quality control. Power range 10-180 W; sens 88 dB SPL/W/m; imp 4 ohms; genuine waxed teak hardwood veneer; 12″ w x 39.75″ h x 12″ d; 61 lb $1,199/pr

8.2 Speaker
Floor-standing ported speaker with 10″ cone woofer and two 3″ cone tweeters. Features dual-chamber design; Stereo Targeting system; Stereo Everywhere technology; ducted port enclosure; automatic system protection circuit; Syncom II computerized quality control. Power range 10-120 W; sensitivity 86 dB SPL/W/m; impedance 4 ohms; teak vinyl; 16″ wide x 33″ high x 9.25″ deep; weight 41 lb $949/pr

6.2 Bass-Reflex Speaker
Bookshelf speaker with controlled-dispersion-pattern design for Stereo Everywhere performance. Features 8″ woofer; two 3″ tweeters; Stereo Targeting system; dual-chamber sub-ported bass venting system; interactive crossover network; hardwood veneer with teak finish. Min power 10 W rms; maximum power 100 W rms; nominal impedance 4 ohms. 20″ wide x 10″ high x 9.62″ deep; 19.5 lb. Optional speaker stand (AS-1) available at extra cost $599/pr

4.2 Bass-Reflex Speaker
Compact bookshelf speaker with Stereo Everywhere performance. Features 8″ woofer; 2.5″ axial-mounted tweeter; Stereo Targeting system; dual-chamber bass-venting system with slot-port exit; auto tweeter-protection circuit; vinyl finish with teak pattern. Min power 10 W rms; max power 75 W rms; imp 8 ohms. 18″ w x 9.5″ h x 10″ d; 15 lb. Optional speaker stand (AS-1) available at extra cost $419/pr

2.2 Bookshelf Speaker
Compact bookshelf speaker with Stereo Everywhere design. Features 6″ long-excursion woofer; 2″ magnetic-fluid-cooled tweeter; slot-port bass tuning system; teak vinyl finish. Power range 10-75 W; max power handling 60 W continuous; imp 8 ohms. 9.88″ w x 14.75″ w x 7.5″ d; 12 lb $299

BOSTON ACOUSTICS

T Series Speakers

T1000 3-Way Speaker
Floor-standing acoustic-suspension speaker with 2 active 8″ copolymer-cone woofers, 6.5″ copolymer-cone midrange in an internal subenclosure, and 1″ CFT5 ferrofluid-cooled tweeter. Features tapered-grille design to eliminate sonic diffraction; tall slender enclosure requires minimum floor space; oak and walnut veneers. Power range 15-150 W rms; FR 38-25,000 Hz ± 3 dB; sens 90 dB SPL/W/m; imp 8 ohms; crossover frequencies 250 and 2,500 Hz. 10.25″ w x 42.5″ h x 11.5″ d $1,000/pr

T830 3-Way Speaker
Floor-standing acoustic-suspension speaker with 8″ copolymer-cone woofer, 3.5″ copolymer-cone midrange, and 1″ Texlite-dome tweeter. Features woodgrain vinyl finish with charcoal grilles or black ebony vinyl with black grille. Power range 15-100 W rms; FR 45-20,000 Hz ± 3 dB; sensitivity 88 dB SPL/W/m; impedance 8 ohms; crossover frequencies 800 and 4,000 Hz. 10″ wide x 29″ high x 10.5″ deep $480/pr

Designer Series Speakers
All Designer speakers are designed for flush mounting in walls or ceilings and come packaged ready to install. Each water-resistant speaker has a matte white finish that can be painted to match room decor. Includes mounting hardware with optional brackets available for installation in new construction. Prices vary depending on included installation costs.

360 2-Way Speaker
Flush-mount speaker with 6.5″ copolymer-cone woofer and 1″ CFT4 ferrofluid-cooled soft-dome tweeter. Woofer specially designed to provide full bass without needing special enclosure. Power range 5-60 W rms; FR 48-20,000 Hz ± 2 dB; imp 8 ohms; sens 90 dB SPL/W/m. 12.06″ h x 8.63″ w; mounting depth 3.25″ ..... $350-$450/pr

350 2-Way Speaker
Flush-mount speaker with 5.25″ copolymer woofer and 1″ CFT4 ferrofluid-cooled soft-dome tweeter. Power range 5-50 W rms; FR 58-20,000 Hz ± 2 dB; imp 4 ohms. 9.5″ h x 6.75″ w; mounting depth 2.63″ ..... $300-$400/pr

705 White Full-Range Speaker
Compact dual-cone full-range speaker. Imp 4 ohms; FR 58-17,000 Hz ± 3 dB. 5.88″ h x 5.88″ w; mounting depth 1.75″ ..... $90-$150/pr

A Series Speakers

A150 Series II 3-Way Speaker
Acoustic-suspension speaker with 10″ copolymer-cone woofer, 3.5″ copolymer-cone midrange, and 1″ CFT5 ferrofluid-cooled soft-dome tweeter. Features tapered-grille design to eliminate sonic diffraction. Power range 15-125 W rms; FR 39-20,000 ± 3 dB; imp 8 ohms; crossover frequencies 550 Hz and 3,500 Hz. Includes black pedestal base. 32.5″ h x 16″ w x 8.36″ d. Oak or walnut veneers $650/pr
Woodgrain vinyl finish $560/pr

A100 Series II 2-Way Speaker
Acoustic-suspension speaker with 10″ copolymer-cone woofer and 1″ CFT5 ferrofluid-cooled soft-dome tweeter. Power range 15-75 W rms; FR 39-20,000 Hz ± 3 dB; crossover at 2,000 Hz; sensitivity 90 dB SPL/W/m. Woodgrain vinyl finish with tapered charcoal grille. Include black pedestal base. 32.5″ high (including base) x 16″ wide x 8.36″ deep $400/pr

A70 Series II 2-Way Speaker
Acoustic-suspension bookshelf speaker with 8″ copolymer-cone woofer and 1″ CFT5 ferrofluid-cooled soft-dome tweeter. Power range 15-75 W rms; FR 45-20,000 Hz ± 3 dB; crossover at 2,500 Hz; sens 90 db SPL/W/m; imp 8 ohms. Woodgrain vinyl finish with charcoal grille. 23″ h x 12.5″ w x 8.88″ d $300/pr

A60 Series II 2-Way Speaker
Acoustic-suspension speaker with 8″ copolymer-cone woofer and 1″ Texlite soft-dome ferrofluid-cooled tweeter. Power range 15-75 W rms; FR 52-20,000 Hz ± 3 dB; crossover at 3,000 Hz; sens 90 dB SPL/W/m; impedance 8 ohms. Woodgrain vinyl finish with charcoal grille or matte black vinyl finish with black grille. 18.25″ h x 11.25″ w x 7.75″ d $220/pr

A40V Series II Video Speaker
Acoustic-suspension 2-way bookshelf speaker with 6.5″ copolymer-cone woofer and 0.75″ ferrofluid-cooled tweeter. Features MagnaGuard magnetic shielding to allow placement near TV or video monitor. Power range 5-50 W rms; FR 68-20,000 Hz ± 3 dB; crossover 3,500 Hz; sensitivity 90 dB SPL/W/m; impedance 8 ohms. Matte black finish with black grille. 13.5″ h x 8.25″ w x 7.25″ d $180/pr

A40 Series II 2-Way Speaker
Bookshelf acoustic-suspension speaker with 6.5″ copolymer-cone woofer and 0.75″ ferrofluid-cooled tweeter. Power range 5-50 W rms; FR 65-20,000 Hz ± 3 dB; sens 89 dB SPL/W/m; imp 8 ohms. Woodgrain vinyl finish with charcoal grille or matte-black vinyl finish with black grille. 8.25″ w x 13.5″ h x 7.25″ d $160/pr

PRICES LISTED
are manufacturers' suggested retail prices
(also referred to as *list* prices);
actual selling prices are set by individual dealers.
All prices are subject to change without notice.

BOZAK

CS-310B Concert Grand Speaker
3-way speaker with 4 B-199B woofers, 2 B-2098 midranges, and 8 tweeters in array. Power range 60-350 W; imp 8 ohms. Matte walnut enclosure. 52" h x 36" w x 19" d $4,199/pr
CS-410CL. Same as CS-310B speaker except Classic cabinet $4,799/pr
CS-410M. Same as CS-310B speaker except Moorish styling $4,999/pr

Symphony No. 1 CS-4000A Modern Speaker
Infinite-baffle 3-way floor-standing speaker with 2 woofers, 6.5" midrange, and 8 2" tweeters in array. Max power 250 W; crossovers 400 and 2,500 Hz at 6 dB/octave; imp 8 ohms. Walnut enclosure; 44.5" h x 26.25" w x 15.62" d .. $2,599/pr
CS-4000 CL. Same as CS-4000A with Classic styling $2,899/pr
CS-4000 M. Same as CS-4000A with Moorish styling $3,099/pr

B-1002 Bard Outdoor Speaker
All-weather 2-way speaker with 8" aluminum midrange/woofer and 2" aluminum tweeter. Max power 60 W; FR 50-20,000 Hz; imp 8 ohms. Uses jack and plug connector. 18" dia. x 21" x 12" $539/pr
B1000. Same as B-1002 without tweeter $459/pr

Digital Music Series

DMS-6000Wi Speaker
Floor-standing infinite-baffle speaker with 12" cone woofer, 6" midrange, 2" cone mid-tweeter, and 0.75" dome supertweeter. FR 28-21,000 Hz ± 3 dB; minimum power 10 W rms, max power 300 W rms; sens 94 dB SPL/W/m; imp 8 ohms; genuine oak veneer finish; 80 lb; 15.5" w x 41" h x 12.5" d $1,349/pr

DMS-4500i Speaker
Floor-standing bass reflex speaker with 12" cone woofer, 4" cone midrange, and 1" dome tweeter. FR 25-21,000 Hz ± 3 dB; minimum power 10 W rms, max power 150 W rms; sens 95 dB SPL/W/m; imp 8 ohms; kumaka laminate or oak finish; 48 lb; 15.5" w x 26.5" h x 11.5± dD .. $719/pr

DMS-3000i Speaker
Bookshelf bass reflex speaker with 8" cone woofer, 2" cone midrange, and 1" soft-dome tweeter. FR 32-21,000 Hz ± 3 dB; minimum power 10 W rms, max power 150 W rms; sens 91 dB SPL/W/m; imp 8 ohms; kumaka laminate or dark oak; 32 lb; 11.5" w x 24" h x 9" d $519/pr

DMS-5500i Speaker
Features 12" woofer; 6" midrange; 1" tweeter. FR 30-21,000 Hz 23 dB; Max power 250 W; dark oak wood veneer; 41" high x 12.25" deep x 15.5" wide $450/pr

DMS-3500i Speaker
3-way speaker with 8" woofer; 4" midrange; 1" soft dome tweeter. FR 35-21,000 Hz ± 3 dB; max power 150 W; genuine dark oak wood veneer; 37" h x 8.75" d x 10.5" w; 40 lb $659

DMS-2000i Speaker
Bookshelf bass reflex speaker with 8" poly cone woofer and 0.75" poly dome tweeter. FR 40-21,000 Hz ± 3 dB; minimum power 5 W rms, max power 75 W rms; sens 92 dB SPL/W/m; imp 8 ohms; kumaka laminate; 21 lb; 10.5" w x 20" h x 8.5" d $249/pr

DMS-2500i Speaker
Two-way speaker with 8" woofer; 1" soft-dome tweeter. Frequency response 35-21,000 Hz ± 2.5 decibels; maximum recommended power 150 W; kumaka laminate finish; 22" h x 8.75" d x 10.5" w; 30 lb $399/pr

Miniature System Series

MB-80² Speaker
Miniature two-way high-performance acoustic-suspension speaker. Features 6" aluminum cone woofer, 2" tweeter; oak veneer cabinet. FR 80-20,000 Hz; crossover 1.6 Hz; max power 150 W continuous music; imp 8 ohms; 12.5" h x 7.88" w x 7.12" d. Satin black lacquer or walnut veneer $549/pr

MBS-1 Subwoofer
Variable-Density pulp/lamb's wool cone subwoofer with 2 voice coils. Features baffle design; vented cabinet. FR 20-85 Hz ± 3 dB; imp 8 ohms nominal; sens 88 dB SPL/W/m; min power 25 W; max power 200 W; crossover 12 dB/octave at 80 Hz. 23.5" h x 14.5" w x 12.25" d; 48 lb; genuine wood veneer, walnut, oak, or black ..... $400 ea

BSM by LASER AUDIO

Series 12 MKII 4-Way Speaker
Floor-standing passive-radiator speaker with 12" polypropylene-cone passive radiator; 12" polypropylene cone woofer; 4" cone midrange; 2" cone tweeter; circuit overload protecion. FR 30-20,000 Hz ± 3 dB; min power 15 W rms; max power 100 W rms; sens 94 dB SPL/W/m; imp 4/8 ohms. Ebony wood-grain finish. 15" w x 41" h x 11" d; 37 lb $320/pr

Series 7 MKIV 3-Way Speaker
Floor-standing acoustic-suspension speaker with 12" polypropylene cone woofer; 4" cone midrange; 2" cone tweeter; circuit overload protecion. FR 30-20,000 Hz ± 3 dB; min power 15 W rms; max power 100 W rms; sens 94 dB SPL/W/m; imp 4/8 ohms. Ebony wood-grain finish. 15" w x 27" h x 11" d; 28.5 lb $240/pr

Series 4 MKIV 3-Way Speaker
Floor-standing bass-reflex speaker with 10" polypropylene cone woofer; 3" cone midrange; 1" cone tweeter; circuit overload protecion. FR 40-20,000 Hz ± 3 dB; min power 15 W rms; max power 65 W rms; sens 92 dB SPL/W/m; imp 4/8 ohms. Ebony wood-grain finish. 14" w x 24" h x 10" d; 18.5 lb $190/pr

Series 3 Bass-Reflex Speaker
Floor-standing 3-way speaker with 8" polypropylene cone woofer; 3" cone midrange; 2" cone tweeter; circuit overload protecion. FR 48-20,000 Hz ± 3 dB; min power 15 W rms; max power 50 W rms; sens 92 dB SPL/W/m; imp 4/8 ohms. Ebony wood-grain finish. 11" w x 24" h x 8" d; 16 lbs $170/pr

CALRAD ELECTRONICS

20-316 Compact Bookshelf Speaker
Passive-radiator speaker with stand-alone mounts or universal mounting brackets. 4.5" low/mid driver with 1.5-lb magnet assembly; 2.5" cone-edge-radiator tweeter; 0.36"-thick wood-core cabinet. FR 53-18,000 Hz ± 3 dB; min power 3 W rms; max power 40 W rms; crossover at 2,500 Hz; imp 8 ohms. 4.62" w x 7.75" h x 5.25" d; 11 lb $180/pr

CANTON

CA 30 Active Speaker
Quad-amplified floor-standing speaker with differential amp and motional feedback system for each driver section (120 W woofer, 100 W midrange, 100 W tweeter). Features four 260-mm cone woofers; 190-mm cone woofer; 38-mm metal-dome midrange; 25-mm titanium-dome tweeter; Darlington output stage for amps; auto on/off stabilized dual mains supply; electronically controlled protection circuitry. FR 20-30,000 Hz ± 3 dB; bandwidth 3-140,000 Hz; distortion <0.03%; S/N 100 dB. 15" w x 66.5" h x 16.5" d; 275 lb $15,000/pr

CA 20 Active Speaker
Quad-amplified floor-standing speaker with differential amp and motional feedback system for each driver section (120 W woofer, 100 W midrange, 100 W tweeter). Features two 260-mm cone woofers; 190-mm cone woofer; 38-mm metal-dome midrange; 25-mm titanium-dome tweeter; Darlington output stage for amps; auto on/off stabilized dual mains supply; electronically controlled protection circuitry. FR 20-30,000 Hz ± 3 dB; bandwidth 3-140,000 Hz; distortion <0.03%; S/N 100 dB. Black-ash or matte-mahogany finish. 13.4" wide x 48.4" highx 15.75" deep; 175 lb $10,000/pr

CA 15 Active Speaker
Tri-amplified floor-standing speaker with electronic signal correction of all drivers. Features 260-mm long-throw woofer; 120-mm midrange; 25-mm titanium-dome tweeter; crossover frequencies 350/3,500 Hz; 3 separate 100-W amplifiers for bass, mid, and high frequencies; THD <0.03% $6,000/pr

CT 120 Floor-Standing Speaker
4-way bass-reflex speaker features 310-mm (≈ 12") woofer; 200-mm (≈ 8") bass/midrange; 38-mm (≈ 1.5") midrange; 25-mm (≈ 1") titanium-dome tweeter. Power handling 200 W contiuous/350 W peak; imp 4 ohms; crossover frequencies 250 Hz, 1,100 Hz, 4,600 Hz. 14.2" wide x 47.25" hide x 15.6" d $5,000/pr

CT 100 Floor-Standing Speaker
4-way bass-reflex speaker features 260-mm (≈ 10") woofer; 160-mm (≈ 6") bass/midrange; 38-mm (≈ 1.5") midrange; 25-mm (≈ 1") titanium-dome tweeter. Power handling 180 W continuous/300 W peak; imp 4 ohms; crossover frequencies 250/1,100/4,600 Hz. 12.6" wide x 41.3" high x 14.1" deep $3,500/pr

CT 90 Floor-Standing Speaker
3-way bass-reflex speaker features 260-mm (≈ 10") woofer; 120-mm (≈ 5") midrange; 25-mm (≈ 1") titanium-dome tweeter. Power handling 150 W continuous, 250 W peak; imp 4 ohms; crossover frequencies 450/4,000 Hz. 12.2" w x 35.5" h x 12.9" d $2,250/pr

CT 80 Floor-Standing Speaker
3-way bass-reflex speaker features 220-mm (≈ 8.5″) woofer; 120-mm (≈ 5″) midrange; 25-mm (≈ 1″) titanium-dome tweeter. Power handling 100 W contiuous/150 W peak; imp 4 ohms; crossover frequencies 450/4,000 Hz. 11″ w x 31.5″ h x 11.5″ d..... $1,500/pr

Karat 60 Bookshelf Speaker
3-way speaker features 260-mm woofer; 120-mm midrange; 25-mm titanium-dome tweeter; power handling 100 W continuous/150 W peak; imp 4 ohms. 12.4″ w x 22.9″ h x 12.5″ d ... $1,500/pr

Karat 40 Bookshelf Speaker
3-way speaker features 220-mm woofer; 120-mm midrange; 25-mm titanium-dome tweeter; power handling 90 W continuous/130 W peak; imp 4 ohms. 10.9″ w x 20.1″ h x 10.9″ d ... $1,200/pr

Karat 30 Bookshelf Speaker
2-way speaker features 220-mm woofer; 25-mm titanium-dome tweeter; power handling 80 W continuous/110 W peak; imp 4 ohms. 10.8″ w x 17″ h x 10.9″ d $800/pr

Karat 20 Bookshelf Speaker
2-way speaker features 200-mm woofer; 25-mm titanium-dome tweeter; power handling 50 W continuous/80 W peak; imp 4 ohms. 8.7″ w x 13.5″ h x 8.2″ d..... $650/pr

GL 300 F Speaker
Low-profile 2-way speaker acoustically tuned for wall mounting. Features 25-mm dome tweeter (fabric); long-throw 160-mm cone woofer cone. Enclosure surfaces black or white; grille of perforated steel plate; color to match enclosure; permafix spring clamps; 5-m connecting cable; removable grille. Nominal imp 4 ohms; nominal power handling 40/60 W; FR 48-30,000 Hz; crossover at 1,700 Hz; 12.6″ w x 8.66″ h x 3.15″ d $500/pr
With walnut finish..... $550/pr

GL 260 Speaker
Weatherproof low-profile 2-way speaker with 160-mm woofer, 25-mm dome tweeter. Features wall-mounting suitability; white or black finish; perforated metal grille. 42-30,000 Hz; crossover 1,700 Hz; power range 60 W; distortion <1%; imp 4 ohms; 10.5″ h x 7.12″ w x 4.75″ d$475/pr
With walnut finish..... $525/pr

HC 100 Speaker
Bookshelf speaker with 110-mm cone woofer, 25-mm dome tweeter. Features Permafix spring clamps; 5-m connecting cable; one-point mounting fixture; removable grille. FR 48-30,000 Hz; max power 60 W; imp 4 ohms; black, white, or bronze finish; 5.12″ w x 7.5″ h x 5.75″ d; 5 lb $325/pr

Plus S Speaker
2-way bookshelf minispeaker suitable as satellite in connection with Canton Plus Beta and Plus C subwoofers. Features 110-mm cone woofer; 25-mm dome tweeter; flush wall mount; removeable grill. FR 45-30,000 Hz; minimum power 20 W; max power 80 W; sens 87.2 dB SPL/W/m; imp 4 ohms. 4.72″ w x 8.07″ h x 3.94″ d; black, white, brown finishes $325/pr
Walnut finish $495/pr

Subwoofers

Plus Beta Active Subwoofer
Floor-standing bi-amplified woofer system containing amplification for satellites and subwoofer. Features 310-mm cone woofer; signal-correction circuit; thermal overload; short-circuit protection; bass level control; adjustable crossover; adjustable input sens; auto on/off; terminals and switching for up to 4 satellite speakers. FR 20-70/90/120 Hz ± 3 dB; amp output power 140 W ea; THD and <0.1%. Black, white, or walnut finish. 13.5″ w x 15″ h x 15″ d; 50 lb ..... $2,000 ea

Plus C Subwoofer
Compact passive 310-mm cone subwoofer for use in connection with satellites such as Canton Plus S. FR 22-120 Hz; min power 35 (2x) W; max power 75 (2x) W; sens 89.9 dB SPL/W/m; imp 4 ohms. 14.7″ w x 13.4″ h x 13.8″ d; 10.5 Kg; black, white, walnut finishes..... $550 ea

CARVER

The Amazing Loudspeaker
Floor-standing panel speaker with line-source ribbon drivers with low mass, high efficiency, and high speed. 4 planer subwoofers in panel for low frequencies and ribbon for mid to high frequencies. Black. Min power 100 W rms; max power 350 W rms; sens 91 dB SPL/W/m; imp 5 ohms. 24″ w x 60″ h x 4″ d; 160 lbs $1,576/pr

CELESTION

System 6000 Subwoofer
Double dipole low frequency array primarily for use with SL 600 model (below). Uses 2 12″ long throw units in each of the 2 systems and is sensitivity matched to the SL 600 with adjustment available. Electronic section contains crossover and EQ components, with variable gain and extension controls..... $3,000/pr

SL600 2-Way Speaker
2 way sealed box design, using Aerolam cabinet of 12 liter volume. 120 W program power handling and designed for use on rigid stands. Copper dome tweeter and bass unit with integral dust cover $1,800/pr
SL6S. Similar to above. Two-way speaker with aluminum 1-piece tweeter and 6″ dual-surround woofer $900/pr

700 Sealed Box Speaker
2-way sealed box design, using Aerolam cabinet of 12-liter volume. 120 W program power handling; uses integral speaker stand. Metal dome tweeter for high frequencies and 2-part roll surround on woofer ..... $800-$1,000

DL10 Series 2 3-Way Speaker
Bass-reflex speaker with separate midrange enclosure. 10″ woofer, 6″ midrange; 1.25″ aluminum dome tweeter, and 6″ bass unit with integral dust cover and roll surround $900/pr

DL8 Series 2 2-Way Speaker
Sealed cabinet speaker with 8″ celoprene cone woofer and 1″ metal tweeter. Designed for stand mounting, uses figure 8 cabinet brace and is available in simulated American walnut or black finishes $540/pr

DL6 Series 2 2-Way Speaker
Sealed box design, 8″ woofer and 1″ metal-dome tweeter. Designed for use on speaker stands. Available in simulated American walnut and black finishes $430/pr

DL4 Series 2 2-Way Speaker
Compact, 2-way sealed-box speaker, using 6″ woofer and 1″ metal-dome tweeter. Designed for stand or bookshelf mounting $330/pr

CELLO

Amati Speaker
Compact speaker for wall, shelf, or stand mounting (see listing in accessories section for speaker stands); available in many finishes. 27″ w x 20″ h x 10″ d $3,500/pr

CERWIN-VEGA

Digital Series Speakers

D-9 Speaker
3-way, 4-driver, floor-standing speaker with 15″ woofer, dual 6″ midranges and 1″ tweeter. Features Helmholz/Theile enclosure fabricated from high-density pressed board with woodgrain vinyl finish and acoustically transparent brown stretch grille. FR 29-20,000 Hz; power range 5-350 W; sensitivity 101 dB; impedance 4 ohms; crossover frequencies 500 and 3,500 Hz; 35.5″ x 18″ x 17.75″; 85 lb $1,050r

D-7 Tower Speaker
3-way tower speaker with 12″ woofer, dual 6″ cone distributed midrange driver in large chamber, 1″ horn tweeter. Features circuit protection; midrange, tweeter level controls; FR 25-20,000 Hz ± 3 dB; crossovers 500 and 3.5 kHz; sens 98 dB sound-pressure level W/m; maximum recommended power 200 W; imp 8 ohms.... $870/pr

D-5 Horn-Tweeter Speaker
Floor/shelf 3-way speaker with 12″ woofer, 6″ cone midrange, 1″ horn tweeter. Features circuit protection; tweeter level controls; FR 32-20,000 Hz ± 3 dB; crossovers 700 and 3.5 kHz; sens 96 dB SPL/W/m; max power 150 W; imp 8 ohms $660/pr

D-3 Bookshelf Speaker
3-way shelf-speaker with 10″ woofer, 6″ cone midrange, 1″ horn tweeter. Features circuit protection; midrange, tweeter level controls; FR 30-20,000 Hz ± 3 dB; crossovers 700 and 3.5k Hz; sens 94 dB SPL/W/m; imp 8 ohms; finished in hickory woodgrain vinyl w/brown stretch cloth grille $580/pr

D-2 Vented Speaker
2-way vented speaker with 10″ woofer in cast aluminum frame and 1″ voice coil horn. Features high-frequency protection circuit breaker; direct-radiating vented enclosure; hickory woodgrain vinyl finish with brown stretch-cloth grille. Frequency response 30-20,000 Hz; power handling min/max 5/125 W; sens 94 dB; nominal imp 8 ohms; crossover frequency 3,000 Hz; 23.5″ h x 14″ w x 10″ d; 38 lb $440/pr

D-1 2-Way Speaker
2-way speaker with 8″ woofer and 1″ voice-coil high frequency horn. Features resettable high-frequency protection circuit breaker; vented cabinet; hickory woodgrain vinyl with cloth grille. FR 30-20,000 Hz; power min/max 5/100 W; sens 92 dB W/m; 8 ohms imp; crossover frequency 3,000 Hz; 20″ h x 11″ w x 10″ d; 49 lb/pr $340/pr

SW-12B Subwoofer
Vented direct-radiating subwoofer compatible with most 4/8 ohm speakers. 12″ floor-facing driver built on die-cast aluminum frame with 7-lb magnet. Power range 5-125 W; sensitivity 92 dB W/m; woodgrain vinyl veneer finish; measures 13.25″ high x 25.5″ wide x 16.25″ deep; total weight 48 lb $300/ea

The listings are based on data provided by the manufacturers. For more product information, contact an authorized dealer or the manufacturer directly. Manufacturers' addresses and phone numbers are listed in the directory beginning on page 226.

SPEAKERS

AT Speaker Series

AT-15 3-Way Speaker
3-way bass-reflex speaker includes fuse protection. 15" woofer; 2 5" midranges; dome tweeter. power handling capacity 5-400 W; sens 102 dB W/m; nominal imp 6 ohms; 36.5" h x 19" w x 18.5" d; 85 lb $1,080/pr

AT-12 3 Way Speaker
Similar to above with 12" woofer, 1 5" midrange. Power handling capacity 5-200 W; sens 97 dB W/m; nominal imp 6 ohms; 30" h x 16" w x 14" d; 55 lb $690/pr

AT-10 3 Way Speaker
Similar to above with 10" woofer and internal self-resetting circuit breaker. Power hadling capacity 5-150 W; sens 95 dB; nominal imp 6 ohms; 28.5" h x 14" w x 13.5" d; 40 lb $620/pr

AT-8 2 Way Speaker
2 way version of above with 8" woofer, dome tweeter. Power handling capacity 5-100 W; sens 94 dB; nominal imp 6 ohms; 21" h x 12" w x 10" d; 26 lb $410/pr

SE Speaker Series

380SE Speaker
Floor-standing bass reflex speaker with 15" cone woofer, 2 7" polyolefin cone midranges, and 1" VC elliptical tweeter. FR 29-20,000 Hz ± 3 dB; minimum power 5 W rms, max power 405 W rms; sens 102 dB SPL/W/m; imp 6 ohms; black vinyl; 90 lbs; 17.5" w x 36" h x 19.5" d$1,080/pr

300SE Speaker
Floor-standing bass reflex speaker with 12" cone woofer, 7" polyolefin cone midrange, and 1" VC horn-loaded dome elliptical tweeter. FR 25-20,000 Hz ± 3 dB; minimum power 5 W rms, maximum power 255 W rms; sens 98 dB SPL/W/m; imp 6 ohms; black vinyl; 65 lb; 14.5" w x 32" h x 16.25" d $900/pr

280SE Speaker
Floor-standing bass reflex speaker with 12" cone woofer, 6" cone midrange, and 1" VC horn loaded dome, elliptical tweeter. FR 32-20,000 Hz ± 3 dB; minimum power 5 W rms, max power 155 W rms; sens 96 dB SPLW/m; imp 6 ohms; black vinyl; 44 lb; 14.5" w x 25.5" h x 11.5" d $690/pr

250SE Speaker
Floor-standing bass reflex passive speaker with Hemholtz Thiele acoustically dense enclosure with sound absorbent baffle and circuit breaker protection. Speaker contains 10" cone woofer; 6" cone midrange; 1" VC horn loaded dome elliptical tweeter. FR 32-20,000 Hz ± 3 dB; minimum power 5 W rms, max power 125 W rms; sens 95 dB SPL/W/m; imp 6 ohms; black vinyl; 41 lb; 12.5" w x 28" h x 11.5" d $600/pr

240SE Speaker
Bookshelf bass reflex speaker with 10" cone woofer and 1" VC horn loaded dome elliptical tweeter. FR 32-20,000 Hz ± 3 dB; minimum power 5 W rms, max power 125 W rms; imp 6 ohms; black; 36 lb; 12.5" w x 25" h x 11.5" d $470/pr

200SE Bookshelf Speaker
2-way version of 240SE. Direct-radiating 8" woofer, 1" tweeter. FR 32-20,000 Hz ± 3 dB; power range 5-100 W; imp 6 ohms; black; 32 lb; 22" x 10.5" x 12.25" $410/pr

CHAPMAN SOUND

T9 4-Way Floor-Standing Speaker
Air-suspension speaker comes standard in bi-wired, bi-ampable configuration. 2 10" polylaminate cone woofers; 6.5" polylaminate cone midrange; 5" polylaminate cone midrange; 1" dome tweeter. FR 25-20,000 Hz ± 3 dB; min power 50 W rms; max power 500 W rms; sens 88 dB SPL/W/m; imp 2 ohms. Oak finish. 22" w x 45" h x 14" d; 150 lbs ea $3,300/pr

T7 3-Way Floor-Standing Speaker
Air-suspension speaker available bi-wired and bi-ampable. 10" polylaminate cone woofer, 5" polylaminate cone midrange, 1" dome tweeter. FR 30-20,000 Hz ± 3 dB; min power 50 W rms; max power 200 W continuous, 500 W peak; sens 86 dB SPL/W/m; impedance 4 ohms; oak finish with black grille; 14" wide x 39" high x 11" deep; 75 lbs each $1,495/pr

T4 2-Way Bookshelf Speaker
Air-suspension box speaker available bi-wired and bi-ampable. Features 8" polylaminate cone woofer; 1" dome tweeter. FR 40-20,000 Hz 23 dB; power range 25-100 W; sens 88 dB SPL/W/m; imp 4 ohms; oak with black grille; 11" w x 23" h x 8" d; 35 lbs each $760/pr

DAHLQUIST

DQ-20 Speaker
Three-way vertical-phase-array speaker intended for floor placement. Speaker contains 250-mm cone woofer; 120-mm cone midrange; 20-mm dome tweeter. Minimum power 70 W rms; impedance 4 ohms. Available in oak with black or white grille..... $1,800/pr

DQ-10 Speaker
Phased-array speaker. Features low-diffraction time-delay treble-slope control; solid walnut or oak trim black or white grille cloth; in mirror-image pairs. FR 37-27,000 Hz; crossovers 400, 1k, 6k, 12.5; power range 60-200 W; imp 8 ohms; 31.5" h x 9" d $1,200/pr
ST-10 Stand $80/pr

DQ-1 W Subwoofer
Subwoofer with 13" driver in heavy cast frame for biamplified systems. Features walnut or oak finish with black or white grille cloth; 28" h x 18" w x 14" d $395

Dynamic Tracking Studio Monitors

DQM-9 Speaker
Dual rear-firing tuned-port speaker system features rigid die-cast zinc chassis drivers on anti-diffraction baffle in "unbox" enclosure; 11" woofer and 5" cone midrange feature flat-wound ribbon-wire voice coils; tweeter is 1" soft dome. Power range 25-200 W; sens 95 dB SPL/W/m; crossovers 450 and 3.5 kHz; imp 8 ohms; 14.5" w x 25" h x 13.25" d; 55 lb; suede gray Nextel vibration damping and oak or walnut sides with black lacquer top finishes $1,350/pr

DQM-9 Compact Speaker
Dual rear-firing tuned-port speaker features rigid diecast zinc chassis drivers on anti-diffraction baffle in "unbox" enclosure; 9" woofer and 5" cone midrange feature flat-wound ribbon wire voice coils; 1" soft dome tweeter; power range 25-140 W; sens 92 dB at 1,000 Hz; crossovers 450 and 3.5 kHz; imp 8 ohms; 22.75" h x 14.36" w x 11.25" d; 43 lb; suede gray Nextel vibration-damping finish $980/pr
Oak or walnut sides with black lacquer top $1,200/pr

ST-9 Speaker Stand
Nonresonant floor stand for DQM series speakers; provides rigid mounting, 3.5" upward tilt; matte black finish; capacity; 100 lb. 11.25" w x 14" h x 12" d; 7.5 lb; oak or walnut veneer and matte black finishes $80/pr

M SERIES

M-909 Floor-Standing Speakers
Genuine wood enclosure, spaced grille with solid wood trim, flocked anti-diffraction baffle. 3 way Quasi-Phased Array $1,100/pr

M-907 Acoustic-Suspension Speaker
Real wood walnut enclosure, spaced grille with solid walnut trim. 3 way with 10" woofer, 5" midrange, 1" dome tweeter, damped enclosure. 28" h x 14.5" w x 12.5" d $820/pr

M-905 Tuned-Port Speaker
Real wood walnut enclosure, spaced grille with solid walnut trim. 2-way speaker with cast-frame 8" woofer and 1" dome tweeter; front-firing tuned port. Sensitivity 91 dB; power range 20 W minimum to 125 W maximum; nominal impedance 8 ohms; 24" high x 13.5" wide x 12" deep $590/pr

DAYTON WRIGHT

D XG-10 MK II/d Electrostatic System
Electrostatic speaker system. Centered special leaf tweeter, XIM-11 interface module, 2/XW-10 subwoofers $9,549

XG-10 MK II/i Electrostatic System
Top-centered tweeter, XIM-11 interface module, 2/XW-10 subwoofers $7,894

XAM-7. Speaker $4,035/pr

XAM-4 4-Way Speaker
10" subwoofer; main drivers 6", 1", 0.6"; ambience driver 6". Crossover assymetric 100 Hz, 4,300 Hz, 11,000 Hz; 4-ohm min imp; 48" h x 11" w x 16" d; 80 lb $1,491/pr

LCM-1a 3-Way Speaker
Supertweeter; 1" soft-dome tweeter, 7.5" Bextrene woofer; front panel tilted 20°. FR 40-18,000 Hz ± 3 dB; min imp 4 ohms; 20" h x 11" w x 14" d (bottom), 7.1" (top); 22 lb..... $608/pr

ICBM-1 Subwoofer System
May be used as stand for LCM-1a or used separately; will increase maximum overload of LCM-1a by 12 dB at low frequencies. Frequency response extension to below 16 Hz. 2 long-throw 10" woofers; min imp 4 ohms; black vinyl finish; 48" h x 11" w x 24" d; 66 lb $1,323/pr

dB PLUS

All dB Plus speakers have 1" dome tweeters, walnut-vinyl finish, black knit grilles, and nominal impedances of 8 ohms with minimum of 4 ohms.

1212 Floor-Standing Bass-Reflex Speaker
2 12" viscous-damped cone woofers; 6.5" cone midrange. FR 23-22,000 Hz ± 3 dB; minimum power 10 W, max power 200 W; sens 103 dB SPL/W/m; 54 lbs; 12.24" w x 36.60" h x 11.5" d $1,000/pr

1010 Floor-Standing Bass-Reflex Speaker
2 10" viscous-damped cone woofers. FR 25-22,000 Hz ± 3 dB; minimum power 20 W, max power 150 W; sens 100 dB SPL/W/m; 45 lb; 12.24" w x 36.60" h x 11.5" d..... $750/pr

990 Floor-Standing Passive-Radiator Speaker
10" viscous-damped cone woofer. FR 30-22,000 Hz ± 3 dB; minimum power 10 W, max power 100 W; sens 98 dB SPL/W/m; 37 lb; 12.24" w x 32.60" h x 11.5" d..... $550/pr

880 Bass-Reflex Speaker
10" viscous-damped cone woofer. FR 35-22,000 Hz ± 3 dB; minimum power 10 W, max power

It's remarkable how the DQ-20 loudspeaker brings out the best in music.

For the music listener, evaluating loudspeakers is one part science and nine parts art. The difference in measured response between two speakers may be slight, yet one will sound superb, the other merely adequate. The only test instruments which can accurately and reliably distinguish good from bad--or great from merely good--are your ears. And even they have to be used with knowledge and care.

A loudspeaker has a difficult job. It must reproduce sounds ranging from the quietest whisper of a human voice to the full thunder of a symphony orchestra. That's a ratio of about one to a billion. It's beyond the range of any loudspeaker made today --but this need not concern us, as it is also beyond the range of any recording medium. However, within its range, a good loudspeaker will reproduce the most complex sounds imaginable, with an absolute minimum of coloration or distortion.

But you can go even further. You can demand that two loudspeakers, working together, define between them the exact point in space from which each individual sound originally emanated. You can also expect a sense of the acoustic surroundings in which the recording was made.

To hear a pair of loudspeakers actually do this is an unforgettable experience. Once you've heard it, it's unlikely that you'll ever settle for less. For these characteristics are essential to the suspension of disbelief vital to the appreciation of recorded music.

Please take the opportunity to audition a pair of DQ-20 loudspeakers, and bring out the best in your music.

DAHLQUIST

DAHLQUIST, INC., 601 Old Willets Path, Hauppauge, NY 11788
Telephone: (516) 234-5757 □ FAX: (516) 234-5781

CIRCLE NO. 77 ON READER SERVICE CARD

100 W; sens 96 dB SPL/W/m; 29 lb; 11.88" w x 23.88" h x 11.5" d $450/pr

440 Bookshelf Bass-Reflex Speaker
6.5" polypropylene cone woofer. FR 45-22,000 Hz ± 3 dB; minimum power 10 W, max power 80 W; sens 94 dB SPL/W/m; 16 lb; 9.5" w x 15.88" h x 9.25" d $350/pr

dbx

dbx Soundfield 1A Speaker
Two floor-standing enclosures, each with 4 10" woofers, 4 4" midranges, and 6 0.5" dome tweeters. Self-balancing phased arrangement produces both measurably flat axial and power response (20-20,000 Hz ± 2 dB) and stable and consistent image anywhere in listening area (no preferred listening location). Computer-designed crossover individually tailors amplitude and phase of each driver to produce psychoacoustically optimized radiation pattern and constant imp (4 ohms). System includes processor to go in preamp/receiver tape-monitor loop. Processor equalizes speaker FR and also features power amp monitor/speaker protector; rumble suppressor; adjustable HF/LF EQ and high-pass/low-pass filters for ends of audio band; auto ch balancing for out-of-balance program material; ambience control; bypass (for headphone listening); and replacement tape monitor; Sens 90 dB SPL 2.83 V/m, average room; power range 30-400 W/ch; system will produce 110 dB SPL in 3,000 cu-ft. room. Walnut or oak veneer with dark brown grilles. 42" h x 14.5" w x 14.5" d; 80 lb $3,000/system

Soundfield 50 Speaker
Two floor-standing vented enclosures each with 10" woofer, 6.5" midrange, 4" uppre midrange, and 3 ultra-wide-dispersion 0.5" tweeters. Phased arrangement produces both measurably flat response (34-20,000 Hz ± 2.5 dB) and consistent "Listen Anywhere" stereo imaging throughout room. Sens 91 dB SPL/2.83 V/m; imp 4 ohms nominal, 2.5 ohms min; power range 40-400 W; phased-arranged crossover 200 Hz, 800 Hz, 3,150 Hz, main axis. Walnut or black base and top wit matching grille wraps $2,000/pr

Soundfield Ten Speaker
Two floor-standing sealed-box speakers each with 2 10" cone woofers, 2 4" cone midranges, 4 0.5" dome tweeters. Features outboard processor with adjustable low-frequency/high-frequency EQ; EQ for against-wall and out-from-wall placement; bypass switch for headphone listening; replacement tape monitor; self-balancing phase arrangement produces measurably flat axial and power response from 30-20,000 Hz ± 2.5 dB. Power range 40-300 W; nominal imp 4 ohms; sens 90 dB SPL/W/m. 14.5" w x 34" h x 14.5" d. Oak/walnut veneers $1,499/pr

dbx Soundfield 100 Speaker
Two floor-standing vented enclosures each with 10" woofer, 4" midrange, and 3 ultra-wide-dispersion 0.5" tweeters. Phased arrangement produces both measurably flat response (39-20,000 Hz ± 3 dB) and consistent "Listen Anywhere" "Self-Balancing" stereo imaging throughout room. Computer-designed crossover and asymmetrical cabinet individually tailor amplitude and phase of output in psychoacoustically optimizes radiation pattern. Imp 4 ohms; sens 91 dB SPL/2.83 V/m; power range 20-250 W. Walnut veneer with dark brown grilles. 32" h x 16" w x 13" d $899/pr

dbx Soundfield 1000 Speaker
Two floor-standing vented enclosures each with 8" woofer, 4" midrange, and 2 ultra-wide-dispersion 0.5" tweeters. Phased arrangement produces both measurably flat response (45-20,000 Hz ± 3 dB) and consistent "Listen Anywhere" "Self-Balancing" stereo imaging throughout room. Computer-designed crossover and asymmetrical cabinet individually tailor amplitude and phase of output in psychoacoustically optimized radiation pattern. Imp 4 ohms; sens 92 dB SPL/2.83 V/m; power range 20-250 W. Walnut or black vinyl with matching grilles. 31" h x 14" w x 11" d $699/pr

DCM

Time Frame TF2000 3-Way Speaker
Floor-standing folded tapered transmission-line speaker with two 8" cone woofers, two 6.5" cone midranges, and 1" horn-loaded tweeter. Accurate impulse response combines with high efficiency and power handling for digital sources. FR 30-20,000 Hz ± 3 dB; min power 20 W rms; max power 1,000 W rms; sens 92 dB SPL/W/m; imp 8 ohms. Available in dark oak or brown grille. 60" h x 23" w x 11" d .... $1,999 to $2,299/pr

Time Window 3 Speaker
Folded transmission-line 3-way speaker intended for floor placement. Features time-coherent point source for more accurate off-axis sound reproduction. Adjustable high-and middle-frequency energy output, narrow to wide image spatial control; also utilizes acoustic anti-diffraction lenses. 8" cone woofer; 6.5" cone midrange; 2.75" soft-plastic-dome tweeters. FR 24-20,000 Hz; min power 10 W, max power 200 W; sens 90 dB; imp 8 ohms; available in dark oak with dark brown fabric; 45 lb; 16.25" wide x 39.25" high x 12.36" deep ..... $1,399 to 1,499/pr

Time Frame TF1000 3 Way Speaker
Tapered transmission-line speaker. Mirrored image with 8" woofer, .75" soft plastic dome tweeter, acoustic anti-defraction lens, 4" mid-frequency driver, transmission line termination. Max power rating 50 W rms pink noise continuous/300 W peak program; 8 ohm imp; sens 91 dB W/m; 49 lb; 49" h x 19.5" w x 8" d. . $999 to 1,099

Time Window 1A Speaker
Hybrid transmission-line speaker intended for floor placement. Improved version of original Time Window with wide-angle sound distribution, pinpoint imaging properties and high power-handling capability. Features cylindrical back and triangular-prism front. Optimized for min time-dispersion error. Contains two 6.5" cone woofers with acoustic lens; 2.75" soft plastic dome tweeter with acoustic lens. Min power 10 W, max power 200 W; sens 91 dB; imp 8 ohms; dark oak with dark brown fabric; 32 lb; 15" w x 36" h x 11.75" d $879to 949/pr

Time Frame TF 700 Speaker
Floor-standing folded tapered transmission-line speaker with 8" cone woofer, 4" cone midrange, and .75" dome tweeter. Accurate impulse response for digital sources. FR 34-20,000 Hz ± 3 dB; min power 20 W rms; max power 250 W; sens 90 dB SPL/W/m; imp 8 ohms. 45" h x 18" w x 7" d ..... $749 to $799/pr

Time Frame TF500 Speaker
Mirror-imaged floor-standing loudspeaker. Features 6.5" cone woofer; .75" soft-plastic-dome tweeter with acoustic lens; folded, tapered transmission-line bass loading; FR 34-20,000 Hz; power range 10-100 W; sens 90 dB SPL/W/m; imp 8 ohms; dark oak finish with dark-brown fabric grille; 17" wide x 41" high x 6.75" deep; 42 lb ..... $549 to $599/pr

Time Frame TF 350 Speaker
Floor-standing transmission-line speaker with acoustic anti-diffraction lens. Accurate impulse response for digital sources. Features a 6.5" magnetically-shielded cone woofer and a .75" dome tweeter. FR 42-20,000 Hz ± 3 dB; min power 10 W rms; max power 100 W rms; sens 89 dB SPL/W/m; impedance 8 ohms. Available in dark oak/brown cloth finish. 31 lb. 37" high x 15" wide x 7" deep ..... $399 to $449/pr

Time Frame TF 250 Speaker
Floor-standing bass-reflex speaker with 6.5" cone woofer and .75" dome tweeter. FR 50-20,000 Hz ± 3 dB; min power 10 W rms; max power 50 W rms; sens 89 dB SPL/W/m; imp 8 ohms. Dark oak with dark brown grille. 34" h x 13" w x 6" d ..... $249 to $299/pr

DENNESEN ELECTROSTATICS

Dennesen Nine 3-Way Speaker
Floor-standing bass-reflex electrostatic hybrid speaker designed for minimal edge refractions and reflections. Features electrostatic tweeter system; 10" bextrene woofer; 6.5" bextrene midrange; 6 3" electrostatic tweeters. Phase corrected and time alligned. Includes separate electronic crossover for bi-amping in stereo or summed subwoofer. Includes summed subwoofer. FR 20-35,000 Hz ± 3 dB; min power 50 W rms; max power 200 W rms; sens 89 dB SPL/W/m; imp 8 ohms. Oiled walnut finish. 11" w x 35" h x 15" d; 60 lb $2,650/pr

DESIGN ACOUSTICS

PS-30 3-Piece Speaker System
Consists of 2 PS-5 satellites, PS-LF bass module. Satellites are low-diffraction design with 5" midwoofer, 1" soft-dome tweeter. Bass module has 12" dual voice coil, long-throw woofer; power satellites/subwoofer 35/250 W $695/set

PS-LF Bass Module
Down-firing dual voice coil, long-throw 12" woofer with twin crossover networks at 18 dB/octave, 140 Hz. Features input for use with PS-5 satellites (below); biamp inputs for use with other satellites. Response to below 40 Hz; walnut veneer cabinet; brown cloth grille; power range 15-250; 21" h x 16" w x 16" d $350/ea

PS-5 Speaker
Acoustic-suspension 2-way miniature bookshelf speaker with 5" woofer, 1" dome tweeter. Features midrange, tweeter level controls; walnut veneer cabinet; brown cloth grille. FR 80-16,000 Hz ± 1.5 dB; crossover 2.5 kHz; sens 85 dB SPL/W/m; power range 15-50 W; imp 4 ohms; 11.25" h x 7.36" w x 5.5" d $350/pr

DA 360 Indoor/Outdoor Speaker
Omnidirectional all-weather speaker for indoor or outdoor use. Features rust-proof heavy-duty plastic enclosureas; dual driver system, white finish; mounting from angles or pipe mounted from bottom $240/pr

Point Source Series

PS 103 Floor-Standing Speaker
Acoustic-suspension speaker with down-firing 10" woofer housed in a seperate enclosure within the cabinet. 6" midwoofer and 0.75" dome tweeter in the upper portion of the cabinet. 5-way binding posts will accept bare stranded cable up to 8 gauge, looped wire, banana plugs, spade lugs, and terminal pins. Cabinet is mounted on casters. Sens 88 dB SPL/W/m; power range 30-250 W/

For explanations of abbreviations, specifications, and technical terms, consult the glossary on page 221.

root mean square; nominal impedance 8 ohms; 38.25" high x 13.56" wide x 13.31" deep; 55 lb ea $950/pr

PS-10 3 Way Bookshelf Speaker
Acoustic-suspension 3-way speaker with down-firing 10" long-throw woofer, 5" midwoofer, 1" soft-dome tweeter. Features tweeter level control; mirror-image driver placement; acoustically treated baffle; walnut-vinyl finish; brown cloth grille. FR 48-20,000 Hz; crossovers 190 and 2,000 Hz; sens 90 dB SPL/W/m; power range 15-200 W; imp 8 ohms; 14" h x 13.75" d x 11" w$500/pr

PS-8A 3 Way Speaker
Bookshelf acoustic-suspension speaker. Features 8" down-firing, long-throw woofer; 4" cone midwoofer; .75" soft-dome tweeter; tweeter level control; mirror-image driver placement; acoustically-treated baffle; crossover at 200 and 2,000 Hz. FR 50-20,000 Hz; power range 15-175 W; sens 89 dB SPL/W/m; imp 8 ohms; walnut-vinyl finish; 9" w x 11" h x 13.75" d $380/pr

PS-6 Bookshelf Speaker
Two-way design features 6" woofer; 0.75" soft-dome tweeter; FR 50-20,000 Hz; sens 88 dB SPL/W/m; power range 15-100 W; 11.5" d x 12" h x 8.12" w; 12 lb $240/pr

PS-6V Shielded Bookshelf Speaker
Acoustic-suspension speaker. Features 6.5" long-throw woofer; .75" soft-dome tweeter; mirror-image driver placement; acoustically treated baffle; shielded magnets for use with video monitors. FR 50-20,000 Hz; power range 10-100 W; sens 88 dB SPL/W/m; imp 8 ohms; 8" x 12" x 11.5"$260/pr

DESKTOP LOUDSPEAKER SYSTEMS

DLS-2x Intimate Speaker System
4-piece speaker system with satellites carved from solid wood. 2 DM-2x satellites house 3.25" cone woofer, 0.75" dome tweeter, 0.15" supertweeter; 2 BMW-2 subwoofers house 6.5" cone driver and 2 7" passive radiators. FR 38-30,000 Hz ± 3 dB; power range 20-200 W; sens 87.5 dB SPL/W/m; imp 4 ohms; black or walnut finish $999/system

DLS-2 Intimate Speaker System
4-piece speaker system with satellites carved from solid wood. 2 DM-1 satellites house 3.25" cone woofer, 0.88" dome tweeter; 2 BMW-2 subwoofers house 6.5" cone driver and 2 6.5" passive radiators. FR 39-19,000 Hz ± 3 dB; power range 20-250 W; sens 87 dB SPL/W/m; imp 4.6 ohms; black or walnut finish; satellites 7.5" w x 4.5" h x 3.5" d; subwoofers 12.5" w x 10" h x 8.5" d; 38 lb $899/system

DLS-1A Intimate Speaker System
3-piece speaker system with enclosures made of solid wood blocks carved out for crossover and drivers. 2 full-range DM-1 satellites with 3.25" cone woofer, 0.88" dome tweeter; 1 small BMW-1 subwoofer with 6.5" cone driver. FR 54-18,000 Hz ± 3 dB; power range 20-325 W; sens 86 dB SPL/W/m; imp 4.6 ohms; walnut, golden oak, or teak; satellites 7.5" wide x 4.5" high x 3.5" deep; subwoofer 16" wide x 5.5" high x 8" deep; system weight 28 lb $579/system

BMW-2 Intimate Subwoofer
Floor-standing subwoofer with 6.5" cone driver,

Honesty. It's been a rare virtue in sound.

Until now.

Introducing the new Design Acoustics PS•103 3-Way Loudspeaker

While other speakers attempt to make their mark with bombast and sizzle, the Design Acoustics PS•103 loudspeaker system has been created to accurately reflect the actual sonic drama of the music. No more. And certainly no less.

Hear the original acoustic space
The PS•103 starts with smooth, uniform response for every octave of music. That's basic. Dispersion at the higher frequencies is also enhanced by a tapered, sealed, independent Point Source enclosure for the 6" mid-range and ¾" tweeter. The result of this combination is an appropriate spaciousness to the reproduced sound...neither collapsed, nor overextended. With the PS•103, the illusion of a live performance is more accurate, making possible a more intense reaction to the music.

Bass you can *feel*
The illusion is enhanced by the extended bass performance from the 10" down-firing woofer, housed in its own cabinet with unique multi-element baffles that stiffen the enclosure while smoothing and extending useful sound output. You both hear and feel the deepest bass, while sensing the original room acoustics all around you.

Honestly superior
Before you settle for an artificial sounding speaker, give our spectacular honesty a chance. Audition the Design Acoustics PS•103 loudspeaker system today. Write for the names of Design Acoustics dealers in your area. Like you, they are very serious about very good sound.

DESIGN® ACOUSTICS
An Audio-Technica Company
1225 Commerce Drive, Stow, OH 44224

CIRCLE NO. 20 ON READER SERVICE CARD

2 8" passive radiators. FR 39-175 Hz +3 dB; power range 20-150 W; sens 86 dB SPL/W/m; imp 5 ohms; black finish; 9" w x 9" h x 9" d; 10 lb $525/pr

DM-1 Intimate Speaker
Bookshelf speaker of solid blockwood carved out to house parts. 3.25" cone woofer, 0.88" dome tweeter. FR 175-18,000 Hz −3 dB; power range 20-125 W; sens 85 dB SPL/W/m; imp 8 ohms; walnut, golden oak, or black; 7.5" w x 4.5" h x 3.5" d; 4.5 lb $300/pr

S-1 Speaker Stand
For use with wide-screen TV, stereo TV or audio system. Phase aligned; flat black finish; invisible wiring track. 8" w x 17" h x 8" d; 2.2 lb $65/pr

ELECTRO-VOICE

Interface Series II Speakers
Each Interface 2-way full-range vented direct-radiator system uses an 8" midrange/woofer and 1.5" Super Dome tweeter with a 25-W long-term power-handling capacity in a scientifically-designed "optimally-vented" enclosure. Lowest octave of speaker's bass response is reproduced by the vent (Interface 1) or vent substitute (passive radiator, Interface 2 & 3) so as the frequency lowers, the excursion of woofer decreases producing better transient rsponse, lower distortion, and 6-dB higher efficiency. Cabinets are particle board covered with simulated walnut-grained vinyl and include a dark-brown grille.
Interface 3. FR 40-18,000 Hz ± 3 dB; long-term average power capacity 50 W; 10-ms short-term power capacity 200 W; sens 92 dB SPL/W/m; imp 8 ohms nominal, 5 ohms minimum; crossover frequencies 57 Hz acoustical, 1,500 Hz electrical. Includes 12" low-frequency radiator. 14.75" w x 25.25" h x 13.13" d; 33 lb . $630/pr
Interface 2. FR 47-18,000 Hz ± 3 dB; long-term average power capacity 50 W; 10-ms short-term power capacity 200 W; sens 92 dB SPL/W/m; imp 8 ohms nominal, 5 ohms minimum; crossover frequencies 66 Hz acoustical, 1,500 Hz electrical. Includes 10" low-frequency radiator. 13.75" w x 24.25" h x 10.69" d; 25 lb . $546/pr
Interface 1. FR 56-18,000 Hz ± 3 dB; long-term average power capacity 50 W; 10-ms short-term power capacity 200 W; sens 92 dB SPL/W/m; imp 8 ohms nominal, 5 ohms minimum; crossover frequencies 79 Hz acoustical, 1,500 Hz electrical. 11.38" x 21.25" x 9.69" $420/pr

Sentry 500 Monitor Speaker
Monitor speaker with Constant Directivity for uniform coverage over 100° angle from 250 Hz on up to 10,000 Hz and a 60°-angle coverage for up to 18,000 Hz to eliminate "hot spots" or "dead zones" at particular frequencies. 12" direct-radiator woofer and Super Dome tweeter aligned for minimal phase distortion through mid-band crossover area. Designed for 0.25- to 0.5-space mounting. Optional WB-23 wall mount for corner mounting. FR 1 meter on axis anechoic environment swept 0.33-octave pink noise ± 3 dB 40-18,000 Hz; crossover frequency 1,500 Hz; phase variation 300-3,000 Hz ± 30°; long-term average power handling 100 W at 8 ohms; short-term 10-ms power handling 400 W; nominal imp 8 ohms; min imp 6 ohms. 4-position tweeter attenuation from flat to −9 dB in 3-dB steps. 23.75" w x 27" h x 13" d; 70 lb ..... $499 ea

Sentry 100A Monitor Speaker
Compact monitor with Super Dome tweeter and 8" direct-radiator woofer in an optimally vented enclosure. Features front-mounted high-frequency control; 4th-order Butterworth tuning; utility cabinet with scratch-resistant matte-black vinyl; steel-reinforced grille covered with gray cloth. Designed for rack mounting. FR 1 meter on axis anechoic environment swept 0.33-octave pink noise ± 3 dB 45-18,000 Hz; crossover frequency 2,000 Hz; long-term average power handling above 40 Hz 30 W; short-term 10-ms power handling above 40 Hz 300 W; imp 6 ohms. 17.25" h x 12" w x 11.12" d; 28 lb ..... $255 ea

EMINENT TECHNOLOGY

LFT-III Planar Doublet Speaker
Single-diaphragm Linear Field Transducer with diaphragm remaining within constant magnetic-flux field over entire displacement range; push-pull operation; soft-foil/mylar diaphragm with very thin traces and narrow gaps between each trace driven directly by amp; recommended placement at least 3 ft from rear wall; diaphragm area 580"; peak-to-peak displacement 0.2". FR 35-40,000 Hz ± 4 dB; power range 50-200 W; sens 83 dB SPL/2.83 V/m; max SPL 106 dB at 1 m; imp 8-22 ohms; 27" w x 54" h x 1-3" d; 90 lb ea $2,700

ENERGY

Reference Connoisseur
2-way bass-reflex mirror-imaged speakers, matched 0.12 dB left and right. 6 different exotic matched wood veeners available. 7" polypropylene cone woofer with PVC-stitched suspension; 1.5" dual hyperdome tweeter. FR 25-20,000 Hz ± 1.5 dB off axis; sens 89 dB SPL/W/m; imp 8 ohms; power range 20-200 watts; 35.36" high x 11" wide x 14" deep; 80 lb; priced according to finish from ..... $1,500-$3,000/pr

Reference
2-way bass-reflex front-port monitors matched within 0.12 dB left and right. 7" polypropylene cone woofer with PVC-stitched suspension; 1.5" dual hyperdome tweeter; includes stands; lagos walnut or black vinyl. FR 34-20,000 Hz ± 1.5 dB off axis; sens 89 dB SPL/W/m; imp 8 ohms; power range 20-200 W; 24.62" h x 10.5" w x 12" d; 34 lbs $1,060/pr

Pro Monitor
2-way bass-reflex mirror-imaged speakers matched 0.5 dB left and right. With stands. 7" polypropylene cone woofer with PVC-stitched suspension; 1.5" dual hyperdome tweeter. Walnut-grain vinyl with black sag-resistant fabric grilles. FR 28-20,000 Hz ± 1.5 dB off axis; sens 89 dB SPL/W/m; 24.62" x 10.5" x 12" $800/pr

EPI

EPI Time/Energy Series II Speakers
All EPI Time/Energy Series II speakers have 2-layer bass and midrange speaker cones and treble speaker domes. Stiff plastic layer resists flexing. Other damping layer controls resonances. Ferrofluid-cooled treble voice coils.

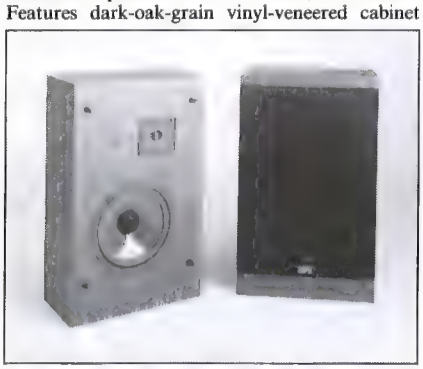
T/E 320 Series II 3-Way Speaker
Floor-standing speaker with 10" woofer, 4" midrange, 1" tweeter. Features dark-oak-grain vinyl-veneered cabinet and brown grille cloth. FR 38-20,000 Hz ± 3 dB; crossovers at 300 and 2,500 Hz; power range 15-250 W; imp 6 ohms. 34.25" h x 13" w x 10" d $500/pr

T/E 280 Series II 2-Way Speaker
Floor-standing speaker with 8" woofer, 8" passive raditaor, 1" tweeter. Features dark-oak-grain vinyl-veneered cabinet and brown grille cloth. FR 32-20,000 Hz ± 3 dB; crossover at 1,800 Hz; power range 10-100 W; imp 8 ohms. 34.5" h x 12" w x 9" d $400/pr

T/E 250 Series II 3-Way Speaker
Floor-standing speaker with 8" woofer, 4" midrange, 1" tweeter. Features dark-oak-grain vinyl-veneered cabinet and brown grille cloth. FR 42-20,000 Hz ± 3 dB; crossovers at 300 and 2,500 Hz; power range 15-225 W; imp 6 ohms. 25.5" h x 15.5" w x 8.25" d $360/pr

T/E 120 Series II 2-Way Speaker
Bookshelf speaker with 10" woofer, 1" tweeter. Features dark-oak-grain vinyl-veneered cabinet and brown grille cloth. FR 38-20,000 Hz ± 3 dB; crossover at 1,800 Hz; power range 15-100 W; imp 8 ohms. 25.5" h x 15.5" w x 8.25" d$320/pr

T/E 100 Series II 2-Way Speaker
Bookshelf speaker with 8" woofer, 1" tweeter. Features dark-oak-grain vinyl-veneered cabinet



and brown grille cloth. FR 40-20,000 Hz ±3 dB; crossover at 1,800 Hz; power range 15-100 W; imp 8 ohms. 21" h x 13" w x 7" d $260/pr

T/E 70 Series II 2-Way Speaker
Bookshelf speaker with 6" woofer, 1" tweeter. Features dark-oak-grain vinyl-veneered cabinet and brown grille cloth. FR 55-20,000 Hz ± 3 dB; crossover at 1,800 Hz; power range 15-90 W; imp 8 ohms. 17.5" h x 10.5" w x 5.75" D .. $200/pr

EPI Time/Energy Monitor Speakers
Time/Energy Monitor speakers combine elements of Time/Energy speaker technology with design concepts of pro monitor speakers for many performance benefits of T/E Series II speakers.

T/E Monitor 2 Three-Way Speaker
Floor-standing speaker with two 10" woofers, 6" cone midrange, and 4.5" x 2.75" horn tweeter. Features black-ash woodgrain vinyl-veneered cabinet with black grille cloth and tweeter output level control. Crossovers at 500 and 5,000 Hz; power range 10-275 W; imp 6 ohms. 37" h x 14" w x 10.75" d $600/pr

T/E Monitor 1 Three-Way Speaker
Floor-standing speaker with 10" woofer, 6" cone

PRICES LISTED
are manufacturers' suggested retail prices
(also referred to as *list* prices);
actual selling prices are set by individual dealers.
All prices are subject to change without notice.

midrange, and 4.5" x 2.75" horn tweeter. Features black-ash woodgrain vinyl-veneered cabinet with black grille cloth and tweeter output level control. Crossovers at 500 and 5,000 Hz; power range 10-250 W; imp 6 ohms. 30.5" h x 12" w x 9" d $440/pr

TE Mini Monitor Two-Way Speaker
Floor-standing speaker with 10" woofer and 4.5" x 2.75" horn tweeter. Black ash grille cloth. Crossover at 4500 Hz; power range 10-150 W; imp 8 ohms. 24.75" h x 11.75" w x 11.12± d $360/pr

Magnus Series Speakers

EPI Magnus A24 3-Way Speaker
Floor-standing speaker with two 12" woofers, 6" mid-bass driver, and CDH tweeter. Features constant-dispersion horn tweeters; dual level controls; closed frame. Crossovers at 500 and 4,000 Hz; power range 10-350 W peak; nominal impedance 4 ohms. Walnut-grain vinyl-veneered cabinet and brown grille cloth; 10.5" high x 17" wide x 10.88" deep $700/pr

EPI Magnus A12 3-Way Speaker
Bookshelf speaker with 12" woofer, 6" mid/bass driver, and CDH tweeter. Crossovers 500 and 4,000 Hz; power range 10-300 W peak; imp 4 ohms; walnut-grain vinyl-veneered cabinet and brown grille cloth; 25.88" h x 15.36" w x 11.5" d $500/pr

EPI Magnus A11 3-Way Speaker
Bookshelf speaker with 10" woofer, 6" mid-bass driver, and CDH tweeter. Crossover 500 and 4,000 Hz; power range 10-220 W peak; imp 4 ohms; walnut-grain vinyl-veneered cabinet and brown grille cloth; 22.88" h x 12.88" w x 11.5" d $400/pr

EPI Magnus A10 2-Way Speaker
Bookshelf speaker with 10" woofer and CDH tweeter. Crossover 4,000 Hz; power range 10-200 W peak; imp 4 ohms; walnut-grain vinyl-veneered cabinet and brown grille cloth; 22.88" h x 12.88" w x 11.5" d $320/pr

EPOS by MUSIC HALL

ES 14 Speaker
8" custom-made woofer; aluminum tweeters; black ash or walnut veneer. 19.5" x 8" x 11.5" $900

ESM by ENERGY

ESM-2 Bass-Reflex Speaker
Mirror-imaged pair with 8" woofer; 1" ferrofluid dome tweeter; phase-corrected crossover at 2,000 Hz; walnut or black ash vinyl; black grilles. FR 40-22,000 Hz ± 3 dB; sens 86 dB SPL/W/m; recommended power range from 12-100 W; nominal impedance 8 ohms, minimum impedance4 ohms; 23" x 11" x 11"; 24 lb each $350/pr
ESM-3. Similar to ESM-2 except FR 45-22,000 Hz; power range 10-80 W; 20" x 10" x 9"; 20 lb each $250/pr

ESS

AMT Series

AMT-Monitor Speaker
Floor-standing passive radiator speaker with 21.5" x 21.5" Heil air motion transformer with mylar articulated diaphragm. Features 12" cone passive rad; 12" cone woofer. FR 35-23,000 Hz ± 3 dB; minimum power 35 W rms, max power 400 W rms; sens 91 dB SPL/W/m; imp 6 ohms; oiled walnut finish; 18.5" x 41" x 12" . $1,299/pr

AMT 1D Speaker
Floor-standing passive-radiator 2-way speaker with 12" polypropylene woofer, 12" passive radiator. Features 21.5" x 21.5" Heil air motion transformer with mylar articulated diaphragm; midrange presence, brilliance controls; oiled-walnut finish; black-brown grille. FR 35-23,000 Hz ± 3 dB; crossover 800 Hz; max power 400 W; imp 6 ohms; horizontal/vertical dispersion 120°/30° sens 91 dB SPL/W/m; 35.25" h x 16.25" w x 16.25" d; 85 lb $1,199/pr

AMT II Speaker
Floor-standing passive-radiator 2-way speaker with 10" fiber cone woofer, 10" passive radiator. Features 21.5" x 21.5" Heil air motion transformer with mylar articulated diaphragm; midrange, presence, brilliance controls; oiled-walnut finish; black-brown grille. FR 38-23,000 Hz ± 3 dB; crossover 900 Hz; max power 160 W music; imp 6 ohms; horizontal/vertical dispersion 120°/30°; sens 91 dB SPL/W/m/; 33.75" h x 15.5" w x 15.5" d; 65 lb $899/pr

Mini Monitor 620 Speaker
2-way mini Bookshelf speaker. Features dynamic 5.25" long excursion woofer; 1.25" dome shape tweeter; 5" passive radiator. FR 60-20,000 Hz ± 4 dB; power range 10-60 W; sens 87 dB SPL/W/m; imp 8 ohms; oiled walnut veneer finish; 7" w x 12" h x 7.5" d; 16.5 lb/pr $158/pr

High-Dynamic-Range Speakers

HD-312 Speaker
Floor-standing bass reflex speaker with 12" woofer, 3" x 7" horn midrange, and 2.4" horn tweeter. FR 38-20,000 Hz ± 3 dB; min power 10 W rms, max power 110 W rms; sens 95 dB SPL W/m; imp 4 ohms; walnut or grain vinyl; 42.5 lb; 14.5" w x 25" h x 12" d $399

HD-310 Speaker
Floor-standing bass reflex speaker with 10" woofer, 3" x 7" horn midrange, and 2.4" horn tweeter. FR 45-20,000 Hz ± 3 dB; minimum power 10 W rms, max power 65 W rms; sens 95 dB SPL/W/m; imp 4 ohms; walnut or grain vinyl finish; 35.5 lb; 12.25" w x 22" h x 12" d $339/pr

HD-210 Speaker
Floor-standing bass reflex speaker with 10" woofer, 2.4" horn tweeter. FR 45-20,000 Hz ± 3 dB; minimum power 10 W rms, max power 65 W rms; sens 95 dB SPL/W/m; imp 4 ohms; walnut or vinyl; 12.25" w x 22" g x 12" d $279/pr

Performance Series

PS-1220 Floor-Standing Speaker
Floor-standing passive-radiator speaker with 12" woofer, Heil air-motion transformer tweeter with 10.4" x 10.4" radiating area, dynamic 4" midrange with hi-temp voice coil. FR 28-23,000 Hz ± 1 dB at midband; sens 93 dB SPL/W/m; imp 4 ohm; power range 10-200 W; solid walnut finish $429/pr

PS-1020 Floor Standing Speaker
Floor standing passive radiator speaker with 12" woofer, Heil air-motion transformer tweeter-midrange. 10.4" x 10.4" radiating area; FR 28-23,000 Hz ± 1 dB at midband; sens 93 dB SPL W/m; imp 4 ohm; power range 10-150 W; solid walnut finish $369/pr

PS-920 Bookshelf Speaker
Passive-radiator speaker with 8" woofer, Heil air-motion transformer tweeter-midrange with 10.4" x 10.4" radiating area. FR 38-23,000 Hz ± 1 dB at midband; sensitivity 91 dB SPL/W/m; impedance 4 ohm; power range 5-100 W; solid walnut finish $319/pr

PS-820 Bookshelf Speaker
Passive radiator speaker with 6" woofer, Heil Air-motion transformer tweeter-midrange with 10.4" x 10.4" radiating area. FR 42-23,000 Hz ± 1 dB; sens 89 dB SPL/W/m; imp 4 ohm; power range 5-125 W; solid walnut finish $259/pr

EUPHONIC AUDIO

Precept Model A 3 Way Speaker
Floor standing speaker with 2 polymer-cone midranges, 1" fiberglass inverted-dome tweeter, 10" coated paper cone woofer. Internally wired with Monster Cable. FR 35-18,500 Hz ± 2 dB; sens 91 dB @ 2.83 V rms; min imp 4 ohms; 39" h x 13" w x 13" d; 65 lb/ea $2,200/pr

Precept Model B 3 Way Speaker
Floor standing speaker with 1 8" polypropylene woofer, 4.5" TPX cone midrange, 0.75" treated linen dome tweeter. FR 36-19,000 Hz ± 2.5 dB; sens 91 dB @ 2.83 V rms; min imp 4 ohms; 36" h x 11.5" w x 11.5" d; 53 lb/ea $1,550

FISHER

STV-440 3-Way Speaker
Features 15" woofer; 5" ferrofluid midrange; 3" ferrofluid tweeter; magnetic field compensated;

150 W rms max. 17.8" w x 38.6" h x 12.8" d; oak vinyl veneer finish $600/pr

STV-430 3-Way Speaker
Features 15" woofer; 4" ferrofluid midrange; 3" ferrofluid tweeter; magnetic field compensated; 100 W rms max. 17.8" w x 36" h x 12.8" d; oak vinyl veneer finish $400/pr

STV-420 3-Way Speaker
Features 12" woofer; 4" ferrofluid midrange; 3" ferrofluid tweeter; magnetic field compensated; 100 W rms max. 14.3" w x 29.7" h x 12.9" d; oak vinyl veneer finish $300/pr

STV-410 3-Way Speaker
Features 10" woofer; 4" midrange; 3" tweeter; magnetic field compensated; 60 W rms max. 12.3" w x 25.7" h x 10.9" d; oak vinyl veneer finish $200/pr

Amplified Speakers
All amplified speakers feature built-in amplifiers rated to deliver 30 W/ch into 8 ohms with no more than 0.1% THD; 3-way bass-reflex design (except STA-226, 2-way); 8" woofers; 4" midranges; 3" tweeters; magnetic field compensation; RCA line input jacks.
STA-226. (2-way) 8" woofer, 3" tweeter ... 400
STA-341. Matches height of Fisher 25" PC series TV's $400
STA-361. Matches height of Fisher 26" PC series TV's $400

STA-381. Matches height of Fisher 27" PC series TV's $400

TV/Audio Speakers
All speakers feature 8" woofer; 4" midrange; 3" tweeter; magnetic field compensation for placement near a TV or video monitor. Max power 50 W rms.
STV-380. 10.2" w x 25.6" h x 11" d... $220/pr
STV-340. 10.2" w x 23.4" h x 11" d... $200/pr
STV-013. 10.2" w x 24" h x 11" d $200/pr
STV-012A. 11" w x 19" h x 11" d $200

FOCUS SPEAKER SYSTEMS

High-Definition Tower Speaker
2-way staggered-transmission-line speaker with 3 phase-aligned drivers; 1.25" inverted Kevlar dome tweeter with 3-lb magnet; 2 8"-mm woofers; lead-lined cabinet; cabinet made of 14-layer epoxy-pulp sleeve; internal bracing; rounded baffle; subenclosure for tweeter; solid oak bases, tops, side rails; 1st-order crossover at 1,000 Hz; crossover components matched to better than 1% tolerances; adjustable and removeable spiking system. FR 35-20,000 ± 2 dB; group delay better than ± 0.02 msec; nominal imp 4 ohms, min imp 3.2 ohms; sens 92 dB SPL/W/m; power range 30-200 W/ch; 14" w x 64" h x 16.5" d; 115 lb$2,950/pr

.7 High-Definition Monitor Speaker
2-way computer-matched time-aligned speaker with Pox Pulp internally braced cabinet; 8" woofer; 1" dome tweeter; contoured port; hardwired crossovers. FR 37-19,000 Hz ± 2 dB; nominal imp 8 ohms, min imp 4.8 ohms; power range 30-150 W/ch; sens 90 dB SPL/W/m; 12" w x 28" h x 12" d; 37 lb $995/pr
Matching Stands $195/pr

.5 High-Definition Monitor Speaker
Bookshelf speaker with Pox Pulp cabinet; 8" woofer; 1" dome tweeter. FR 45-20,000 Hz ± 3 dB; nominal imp 8 ohms, min imp 4.8 ohms; power range 30-150 W/ch; sens 90 dB SPL/W/m; 12" w x 19" h x 12" d; 27 lb $750/pr

FOSTEX

RP2001 4-Way Planar/Cone Speaker
Sealed bass enclosure for cone woofer; mid-bass planar driver handles 200-1,000 Hz; dipole midrange handles 1k-7k; 12.5-mm-wide supertweeter with samarium-cobalt magnet. FR 30-45,000 Hz; sens 90 dB SPL/W/m; imp 8 ohms .. $3,300/pr
RP2001R. In rosewood $3,500/pr

RP1001 3-Way Planar/Cone Speaker
Vented box with cone woofer; planar midrange and supertweeter. FR 40-45,000 Hz; sens 90 dB SPL/W/m; imp 8 ohms $1,990/pr
RP1001R. In rosewood $2,190/pr

RP60 Coaxial Bass-Reflex Speaker
Regulated Phase tweeter mounted in front of 6.5" woofer in vented box; 2 voice coil/magnet assembly; double spider. Frequency response 70-20,000 Hz $598/pr
RP80. Similar to RP60 except 8" woofer$738/pr

FRIED PRODUCTS

G/3 3-Way Speaker
Floor-standing transmission-line speaker with series crossover networks and duocone drivers. Features full-free-flow transmission-line loading of midrange and aperiodic-design principles for linearity and dynamic range. 10" polypropylene duocone woofer; 6.5" midrange; 0.75" dome tweeter. FR 23-22,000 Hz ± 3 dB; power range 10-200 watts averaged root mean square; sensitivity 91 decibels SPL/W/m; impedance 8 ohms. Walnut and oak finishes. 16" wide x 44" high x 18" deep; weight 100 lb $2,200/pr

Studio IV 3-Way Speaker
"Flow-resistance" floor-standing speaker with duocone drivers and series networks. Features 8" duocone woofer; 2" duocone midrange; 1.75" dome tweeter. FR 26-22,000 Hz ± 3 dB; power range 10-1,000 W; sens 91 dB SPL/W/m; imp 8 ohms. Walnut finish. 12" w x 39" h x 18" d; 75 lb $1,230/pr

C/3-L 2-Way Speaker
Full-transmission-line-loaded speaker for use alone or as a satellite. Features 6.5" duocone woofer; 0.75" dome tweeter; series networks; pyramid shape. FR 60-22,000 Hz ± 3 dB; power range 10-250 W rms; sensitivity 91 dB SPL/W/m; nominal impedance 8 ohms. 10.5" wide x 13.5" high x 15.5" deep; 20 lb .... $950/pr assembled
C/3-L Kit. As above except as a kit to put together $430/pr

Model O/3 Subwoofer Kit
Mirror-image dual-channel subwoofer kit with transmission-line design and 10" woofer. Normal input for use with Fried satellite speakers, biamp input for use with other satellites. Response within 3 dB at 20 Hz; power range 25-200 W; fuse protected. 31" h x 24.5" w x 13.5" d .. $700/pr
Model SM/3. Similar to Model O12 except 12" woofer and max power 400 W. 38" h x 29.5" w x 15" d. Kit $800/pr

A/3 2-Way Speaker
Features 8" polypropylene woofer; 1" soft-dome tweeter; edge-on free-flow filters; line tunnel. FR 45-20,000 Hz ± 3 dB; power range 25-100 W; imp 8 ohms; crossover frequency from woofer to tweeter at 2,000 Hz; sensitivity 89 dB SPL/W/m. 23" h x 13" w x 10.5" d $635/pr

Q/3 2-Way Speaker
Features 8" polypropylene woofer; dome tweeter; edge-on free-flow filters; circuit-breaker protection. FR 45-20,000 Hz; power range 20-100 W. 20" h x 13" w x 10.5" d $440/pr

Beta Full-Range Speaker
Full-range speaker of mini-monitor proportions with polypropylene cones, linear crossovers. Features 6.5" polypropylene woofer; composite tweeter with 2" cone and 0.62" dome; series filter crossover; distributed bass-loading free-flow filter system. Walnut or black-ash finish. 13.5" h x 8" w x 8" d $325/pr

Duo Subwoofer
"Flow-resistance" floor-standing subwoofer with dual-voice-coil polypropylene driver. Features 10" cone woofer. FR 30-100 Hz ± 3 dB; power range 20-200 W; sens 90 dB SPL/W/m; imp 8 ohms. Walnut or black-ash finish ..... $330 ea

GENESIS

Genesis 66/2 Floor Standing Speaker
3-way floor-standing speaker with ferrofluid cooled 1" inverted aluminum dome tweeter, 3" treated fabric dome midrange in tuned sub-enclosure, 2 8" magnesium silicate filled polypropylene cone woofers, 4th-order tuned port. FR 28-25,000 Hz ± 3 dB; sens 92.5 dB W/m; power range 30-350 W; imp 4 ohms; oak veneer; 44" h x 18" w 12" d; 81 lb $1,800/pr

Genesis 44/2 2 Way Speaker
2 way design with 10" tuned passive radiator. Woofer and tweeter same as 66/2 (above). FR 34-25,000 Hz ± 3 dB; sens 91 dB W/m; imp 5 ohms average; recommended power 15 W min, 150 W max; oak veneer; 32.5" h x 18" w x 9" d; 42 lb $800/pr

Genesis 33/2 2 Way Speaker
2 way speaker with 10" tuned passive radiator. Woofer and tweeter same as 66/2. FR 39-25,000 Hz ± 3 dB; sens 91 dB W/m; recommended power 15 W min, 150 W max; imp 5 ohms average; oak veneer; 29 " h x 16" w x 8" d; 31 lb$650/pr vinyl finish $550/pr

Genesis 22/2 2 Way Speaker
Rear mounted 10" passive radiator. Woofer and tweeter same as 66/2. FR 46-25,000 Hz ± 3 dB; sens 91 dB W/m; recommended power 15 W min, 150 W max; imp 5 ohms average; oak veneer; 23.5" h x 14" w x 7.6" d; 28 lb . $500/pr vinyl finish $440/pr

Genesis 11/2 Bookshelf Speaker
2 way acoustic suspension speaker. Woofer and tweeter same as 66/2. FR 50-25,000 Hz ±3 dB; sens 90 dB W/m; imp 5 ohms average; recommended power 15 W min, 150 W max; 19 " h x 12.25" w x 7.5" d $330/pr

Genesis 7 Bookshelf Speaker
2-way tuned-port speaker with 0.8" polycarbonate dome tweeter; 6.5" polymer/fibre woofer; FR 60-20,000 Hz ± 3 dB; sens 90 dB W/m; recommended power 10 W min, 60 W max; imp 6 ohms average; 16" h x 11.75" w x 5" d $200/pr

GNP LOUDSPEAKERS

Valkyrie II Acoustic-Suspension Speaker
Floor-standing speaker with midrange lead-suspension system for better isolation and all polypropylene drivers. Features 2 6.5" cone woofers; 3" dome midrange; 6.5" cone midrange; 1" dome tweeter. FR 32-21,000 Hz ± 3 dB; min power 25 W rms; max power 200 W rms; sensitivity 90 dB SPL/W/m; impedance 8 ohms. Walnut, stained-oak or black satin finish. 12" wide x 46" high x 15" deep; 188 lb $1,895/pr

System 220 Acoustic-Suspension Speaker
Floor-standing speaker with minimum-diffraction/phase-coherent separate satellite woofer and all polypropylene drivers. Features 2 6.5" cone woofers; 3" dome midrange; 6.5" cone midrange; 1" dome tweeter. FR 34-21,000 Hz ±3 dB; min power 25 W rms; max power 200 W rms; sens 90 dB SPL/W/m; imp 8 ohms. Walnut, stained-oak or black satin finish. 12" w x 42" h x 15" d; 138 lb $1,149/pr

System 110 Acoustic-Suspension Speaker
Floor-standing speaker with minimum-diffraction/phase coherent-separate satellite woofer and all polypropylene drivers. Features 8" cone woofer; 6.5" cone midrange; 1" dome tweeter. FR 44-21,000 Hz ± 3 dB; min power 25 W rms; max power 150 W rms; sens 90 dB SPL/W/m; imp 8 ohms. Walnut, stained-oak or black satin finish. 12" w x 37" h x 12" d; 102 lb $749/pr

Model 20 Acoustic-Suspension Speaker
Bookshelf satellite minimum-diffraction/phase-coherent speaker can be used with or without woofer. Features 6.5" cone woofer; 3" dome midrange; 1" dome tweeter. FR 59-21,000 Hz ±3 dB; min power 25 W rms; max power 150 W rms; sens 90 dB SPL/W/m; imp 8 ohms. Walnut, stained-oak or black satin finish. 9" w x 17" h x 9" d; 22 lb $599/pr

Model 10 Acoustic-Suspension Speaker
Bookshelf satellite minimum-diffraction/phase-coherent speaker can be used with or without woofer. Features 6.5" cone woofer/midrange; 1" dome tweeter. FR 68-21,000 Hz ± 3 dB; minimum power 25 W rms; max power 100 W averaged root mean square; sensitivity 90 dB SPL/W/m; imp 8 ohms. Walnut, stained oak or black satin finish. 8" wide x 12" high x 7" deep; 15 lb$350/pr

REUBEN GUSS ENTERPRISES

Custom Monitor Speaker System
Custom speaker system with 204 drivers in 8 enclosures. Features 24 15″ woofers; 48 5″ midranges; 32 1″ dome tweeters; 100 custom piezos. Power range 100-900 W rms. 4 cabinets 30″ w x 72″ h x 20″ d; 4 cabinets 22″ w x 72″ h x 16″ d $100,000/system

System 1: Guss Monitor Speaker System
Floor-standing speaker system with 102 drivers in 4 enclosures. Features 12 15″ cone woofers; 24 5″ dome dual-diaphragm midranges; 16 1″ dome tweeters; 50 custom piezo-electric supertweeters. Controls include midrange; tweeter; rear ambience; satellite. FR 25-25,000 Hz ± 3 dB; power range 30-600 W; sens 92 dB SPL/W/m; imp 6 ohms; walnut oak; 36″ w x 73″ h x 21″ d; 375 lb, 60 lb $50,000/system

System 2: Symphony Speaker System
Floor-standing speaker system with 26 drivers in 4 enclosures. Features 4 15″ cone woofers; 6 5″ dome dual-diaphragm midranges; 4 1″ dome tweeters; 12 custom piezo-electric supertweeters. Controls include midrange; tweeter; rear ambience; satellite. FR 28-22,000 Hz ± 3 dB; power range 30-300 W; sens 92 dB SPL/W/m; imp 4 ohms. Walnut and oak finishes. 2 cabinets 22″ w x 54″ h x 20″ d and 2 8″ w x 25″ h x 8″ d; 165 lb, 12 lb $12,000/system

System 3: Concerto Speaker System
Floor-standing speaker system with 22 drivers in 4 enclosures. Features 4 12″ cone woofers; 6 5″ dome dual-diaphragm midranges; 4 1″ dome tweeters; 8 custom Piezo-electric supertweeters. Controls include midrange; tweeter; rear-ambience; and satellite. FR 30-22,000 Hz ± 3 dB; power range 30-300 W; sens 92 dB SPL/W/m; imp 4 ohms. Walnut and oak finishes. 2 cabinets 22″ w x 54″ h x 20″ d and 2 8″ w x 25U h x 8U d; 150 lbs, 12 lbs $6,000/system

System 4: Sonata Speaker System
Floor-standing speaker system with 12 drivers in 4 enclosures. Features 2 12″ woofers; 2 5″ dome dual-diaphragm midranges; 6 custom Piezo-electric supertweeters. Controls for midrange; tweeer; satellite. FR 32-22,000 Hz ± 4 dB; power range 30-200 W; sens 90 dB SPL/W/m; imp 4 ohms; walnut and oak; 21″ w x 38″ h x 19″; 110 lb, 4 lb $3,000/system

HARTLEY PRODUCTS

The Reference
Floor-standing 4-way speaker with 24″ superwoofer, 10″ midrange, two 7″ tweeters. Crossovers 250, 3,000, 7,000 Hz; FR 16-25,000 Hz; power range 25-300 W; impedance 5-8 ohms; wood cabinet with removable knit grille; 50.25″ h x 36″ w x 24″ d $4,995/pr

The Concertmaster
Floor-standing 4-way speaker with 18″ woofer, 10″ midrange, two 7″ tweeters. Crossovers at 250, 3,000, 7,000 Hz; FR 16-25,000 Hz; power range 25-300 W; impedance 5-8 ohms; wood cabinet with removable black grille; 41.5″ high x 29″ wide x 18″ deep $3,850/pr

H Series
All cabinets in the H Series have hand-rubbed walnut veneers and black knit grilles.

H-100 Speaker
Aligned air-column speaker with 8″ long-throw woofer with 1.5″ high-temperature voice coil, chemically treated cone, 1.5″ air-column midrange, 2″ low-mass cone tweeter. Frequency response 50-20,000 Hz ± 4 dB; power range 5-50 W rms, unclipped; crossover 2,300 Hz; 21.5″ h x 10.5″ w x 10.5″ d $380/pr

H-200 Speaker
Aligned air-column speaker. Features 10″ long-throw woofer with 1.5″ high-temperature voice coil, chemically treated cone, 2.5″ air-column midrange, 1″ coated mylar dome tweeter. FR 35-25,000 Hz ± 3 dB; power range 5-100 W rms; imp 8 ohms; crossover 2,600 Hz; 30″ h x 15″ w x 15″ d $650/pr

H-300 Speaker
Aligned air-column speakers with two 10″ long-throw woofers with 1.5″ high-temperature voice coil, chemically treated cone assembly, 4 1.5″ air-column midranges, two 1″ mylar dome tweeters. FR 30-25,000 Hz ± 3 dB; power range 5-150 W rms; imp 4 ohms; crossover 3,400 Hz; 43″ h x 15″ w x 15″ d $1,000/pr

SPL-1 System
Includes 2 SW-10 bass modules, ST-4 phasor arrays, tilt stands for SW-10, aluminum adjustable stands for ST-4, mounting screws, stereo crossover, Allen key. All parts have hand-rubbed walnut veneers; black knit grilles. Frequency response 25-25,000 Hz ± 3 dB.
SW-10. Aligned air-column subwoofer with 10″ woofer with 1″ high-temperature dual voice coil, polymer cone, magnetic suspension, EFM magnet; 3″ polymer cone midrange, magnetic suspension, with two 3″ air columns; imp 6 ohms; power range 15-100 W rms.
ST-4. Polar-aligned phasor with phasor-array supertweeter; imp 8 ohms; power range 15-150 W rms; 12″ h x 5″ w x 5″ d $1,700/system

HECO OF AMERICA

SAT 6000 Bookshelf Speaker
Acoustic-suspension speaker with low-loss crossover for amplitude and phase-response correction. Features 4.12″ cone woofer; 1″ metal-dome tweeter. FR 80-32,000 Hz ± 3 dB; max power 50 W rms; sens 87 dB SPL/W/m; imp 4 ohms; crossover point at 2,200 Hz with 12 dB/octave slope. Black metalllic finish. 5.75″ w x 8.25″ h x 5.12″ d; 5.5 lb $300/pr

D6300 2-Way Speaker
Bookshelf acoustic-suspension speaker with 4.12″ cone woofer and 1″ metal-dome tweeter. FR 80-3,200 Hz ± 3 dB; max power 50 W rms; sens 87 dB SPL/W/m; crossover point at 2,000 Hz with 12 dB/octave slope. Black metallic finish. 8.12″ w x 4.5″ h x 4.75″ d; 7.25 lb $280/pr

Subwoofers

Sub 6000 Compact Subwoofer
Floor-standing subwoofer with auto or manual turn on/off. Driven by 90-W amp and includes two 60-W amps to drive satellite speakers. Features 10″ cone woofer; adjustable input sensitivity and bass level. FR 25-120 Hz ± 3 dB; maximum power 90 W rms; sensitivity 90 dB SPL/W/m; crossover slopes 24 dB/octave for subwoofer, 12 dB/octave for mids and highs fixed at 120 Hz. Black metallic finish. 11″ wide x 11″ high x 12″ deep; 22 pounds each ..... $665 ea

Sub 9000 Powered Subwoofer
110-W powered subwoofer with auto or manual turn on/off and built-in crossover with cabinet equalization. Features 12″ cone woofer; thermal and excess current protection; digital filtering techniques. FR 20-150 Hz ± 3 dB; max power 110 W rms; sens 92 dB SPL/W/m; crossover slope 24 dB/octave. Black metallic finish. 13.75″ w x 17″ h x 13.75″ d; 27.5 lb ..... $520 ea

HEYBROOK by D'ASCANIO AUDIO

HB-3 3-Way Speaker
Hand-assembled acoustic-suspension speaker with 10″ doped-cone woofer; 4.5″ doped-cone midrange and 0.75″ soft-dome tweeter; removable rear panel for bi- and triamping. FR 35-20,000 Hz ± 3 dB; power range 15-200 W. Real walnut, or gloss-black finish. 25″ h x 13.36″ w x 11.36″ d; 46 lb $1,198/pr

HB-LC 2-Way Speaker
Hand-assembled reflex-tuned bookshelf speaker with 6.5″ Bextrene woofer; 1″ dome tweeter; time-aligned crossover. FR 38-20,000 Hz ± 3 dB; power range 20-75 W; imp 8 ohms. Walnut or black finish. 16.36″ h x 9.25″ w x 9.25″ d; 20 lb ea $650

HB-2R 2-Way Speaker
Hand-assembled reflex-tuned bookshelf speaker with 6.5″ doped-cone woofer; 1″ dome tweeter; 15-element crossover; physical time alignment. FR 40-20,000 Hz ± 3 dB; imp 8 ohms; power range 15-100 W. Walnut or gloss-black finish. 16.36″ h x 9.25″ w x 9.25″ d; 19 lb $599/pr

HB-1 2-Way Speaker
Hand-assembled acoustic-suspension bookshelf speaker with 8″ doped-cone woofer; 1″ dome tweeter. Features removable rear panel for biamping. FR 42-20,000 Hz ± 3 dB; imp 8 ohms; power range 10-75 W; sens 89 dB SPL/W/m. Walnut vinyl or gloss-black finish. 18.75″ h x 11.5″ w x 9.25″ d; 19 lb $329/pr

Point Five 2-Way Speaker
Hand-assembled acoustic-suspension bookshelf speaker with 6.5″ doped-cone woofer; 1″ dome tweeter; especially rigid cabinet. FR 40-20,000 Hz ±3 dB; power range 15-75 W; imp 8 ohms. Walnut or black finish $270

HITACHI

HSA4040 3-Way Tower Speaker
12″ woofer; 3″ midrange; 2″ tweeter; 12″ passive radiator in rear; max power 120 W; wood cabinet; detachable grille cloth $300/pr

HSA3050 3-Way Tower Speaker
10″ woofer; 3″ midrange; 2″ tweeter; max power 60 W; detachable grille cloth $250/pr

HSA6120 4-Way Tower Speaker
Bass reflex; 10″ cone woofer; max power 120 W; magnetically shielded; 4″ midrange; 3″ tweeter; 1″ ribbon supertweeter; detachable grille cloth $220/pr

HSA2028 2-Way Tower Speaker
Bass reflex; 8″ woofer; 2″ tweeter; max power 30 W; wood cabinet $150/pr

IMAGE

All Image speakers, both in the Concept and Reference Series, have nominal impedances of 6 ohms, with minimum impedance of 4 ohms, and black grilles.

The listings are based on data provided by the manufacturers. For more product information, contact an authorized dealer or the manufacturer directly. Manufacturers' addresses and phone numbers are listed in the directory beginning on page 226.

Concept 200 Ported Speaker
2 6.5" woofers; 0.75" cotton dome tweeter; crossover at 2,100 Hz; Italian black walut vinyl. FR 35-23,000 Hz ± 2 dB; sens 87 dB SPL/W/m; power range 35-150 W; 43" x 10" x 15"; 66 lb each $900/pr

Concept 100 Ported Speaker
6.5" woofer; 0.75" cotton dome tweeter; crossover at 2,100 Hz; Italian black-walnut vinyl. FR 45-23,000 Hz ± 2 dB; sens 87 dB SPL/W/m; power range 35-100 W; 16" x 9" x 11"; 23 lb each $600/pr

Reference Two Ported Speaker
8" doped woofer; 1" polyester soft-dome tweeter; crossover at 2,200 Hz; lagos hickory vinyl. FR 35-20,000 Hz ± 3 dB; sens 88 dB SPL/W/m; power range 20-100 W; 24" x 11" x 12"; 31 lb each $370/pr

Reference One Ported Speaker
8" doped woofer; 0.75" polyester soft-dome tweeter; crossover at 2,200 Hz; lagos hickory vinyl. FR 40-20,000 Hz ± 3 dB; sens 89 dB SPL/W/m; power range 20-100 W; 19" x 10" x 9"; 20 lb each $260/pr

Reference .5 Ported Speaker
6.5" damped woofer; 0.75" polyester soft-dome tweeter; crossover at 2,500 Hz; lagos hickory vinyl. FR 45-20,000 Hz ± 3.5 dB; sens 87 dB SPL/W/m; power range 20-75 W; 16" x 10" x 9"; 15 lb each $220/pr

INFINITY

IRS Series V Reference Speaker
Modular 4-piece 3-way floor-standing speaker. Features 2 woofer modules with six 12" woofers in feedback loop of servo amp (2 1,800-W woofer amps); 2 midrange/tweeter modules with 12-dipole midrange drivers; 36 tweeters in dipole line-source array (24 front/12 rear-facing); bass variable low-pass filters; low-pass variable damping; woofer level controls; selectable input imp midrange/tweeter amp control; woofer phase switch; servo bass on/off circuit; Monster Cable wiring for midrange and woofer. FR 16-40,000 Hz ± 2 dB; crossovers 70 Hz nominal, 60-120 Hz at main control unit woofer/midrange, 5 kHz midrange/tweeter; midrange/tweeter amp input range 100-500 W/ch; oiled and "Grand Piano" Indian rosewood finish; 100-ft cable for hookup of midrange/tweeter to midrange/tweeter amp. Woofer modules: 7' 6" h x 18" square; midrange/tweeter modules 7' 6" h x 40" w (with hollow and sand-filled curved wing sections) $45,000/system

IRS Series

IRS Beta Speaker
Includes (per side) four 12" woofers with servo-controlled polylpropylene/graphite fiber injection molded cones; 2 upper bass/midrange (70 Hz-60 kHz) planar push-pull drivers which act as dipole; low-mass EMIT with neodymium magnets for upper midrange; low mass/neodymium EMIT's from IRS V (in dipole configuration) for the lower treble; SEMIT (a smaller aperture EMIT) which extends response beyond 44 kHz. The system operates in biamp mode and includes the IRS V servo control unit $10,000
IRS Gamma. Similar to Beta with 2 woofers and 1 upper-bass midrange $5,500
IRS Delta. Similar to Gamma with accelerometer servo system $4,500

Kappa Series

9 Kappa Reference Standard Speaker
5-way design features 2 12" cast-frame L/C-tuned woofers; SEMIT K supertweeter; rear-firing EMIT K tweeter; 3" polydome rear radiator; polygraph K composite polypropylene/graphite 5" mid-bass dome; 3" edge-wound polydome K midrange; internal crossovers; biampable; oak solids and veneer with high-density particle board with furniture-grade lacquer finish. FR 29-45,000 Hz ± 3 dB; crossover frequencies 80, 800, and 4,500 Hz; power rating 60-340 W/rms; sensitivity 89 dB SPL/W/m; impedance 4-6 ohms. 59.5" high x 21.5" wide x 8" deep $2,698/pr
8 Kappa. 4-way design similar to 9 Kappa without supertweeter, rear-firing tweeter and radiator, and 1 woofer. FR 33 Hz-45,000 Hz ± 3 dB; power rating 50-250 W/rms; sens 89 dB SPL/W/m; imp 4-6 ohms. 47.5" h x 20.5" w x 8" d .. $1,898/pr
7 Kappa. 3-way design similar to 8 Kappa with 12" woofer, 3" polydome K midrange, and EMIT K tweeter. Power rating 40-200 W/rms; FR 37 Hz-45,000 Hz. 37" h x 17" w x 12" d $1,318/pr
6 Kappa. 3-way design similar to 7 Kappa except the woofer is 10". Power rating 30-150 W rms; Frequency response 39 Hz-45,000 Hz. 25" h x 15" w x 10.5" d $998/pr

SM Speaker Series

SM 150 3-Way Speaker
Floor-standing bass-reflex speaker with 15" cone woofer, 2 4.5" midranges, and 1" polycell dome tweeter. FR 29-27,000 Hz ± 3 dB; min power 10 W/rms, max power 300 W/rms; sens 101 dB SPL/W/m; imp 8 ohms; rosewood vinyl; 19" w x 39.5" h x 12.5" d $1,118/pr

SM 120 3-Way Speaker
Floor-standing bass-reflex speaker with front-mounted high-level and mid-level controls. Contains 12" cone woofer; 4.5" cone midrange; 1" polycell-dome tweeter. Minimum power 10 W rms, maximum power 200 W rms; sens 98 dB SPL/W/m; imp 8 ohms; rosewood vinyl; 15.75" w x 33.25" h x 12.5" d $778/pr

SM 100 2-Way Speaker
Floor-standing bass-reflex speaker with 10" cone woofer and 1" polycell-dome tweeter. Min power 10 W/rms, max power 150 W/rms; sens 98 dB SPL/W/m; imp 8 ohms; rosewood vinyl; 14" w x 29.5" h x 12.5" d $518/pr

RS Speaker Series

RS 6000 3-Way Speaker
Features 2 10" cone woofers, 2" dome midrange, EMIT planar tweeter. FR 41-44,000 Hz ± 3 dB; sens 89 dB SPL/W/m; min power 35 W rms; max power 200 W averaged root mean square. 15" wide x 37" high x 10" deep $850/pr

Infinity IRS Beta

RS 5000 3-Way Speaker
Acoustic-suspension speaker with 10" cone woofer, 3.5" cone midrange, and EMIT planar tweeter. FR 42-32,000 Hz ± 3 dB; min power 20 W rms, max power 135 W rms; sens 89 dB SPL/W/m; imp 6 ohms; oak vinyl; 15" w x 24" h x 10.25" d $590/pr

RS 4000 3-Way Speaker
Bookshelf acoustic-suspension speaker with 8" cone woofer, 3.5" cone midrange, and EMIT planar tweeter. FR 44-32,000 Hz ± 3 dB; min power 20 W rms, max power 125 W rms; sens 89 dB SPL/W/m; imp 6 ohms; oak vinyl; 12.5" w x 22.5" h x 10.25" d $478/pr

RS 3000 2- Way Speaker
Bookshelf acoustic-suspension speaker with 8" cone woofer and 1" polycell dome tweeter. FR 45-22,000 Hz ± 3 dB; min power 20 W rms; max power 100 W rms; sens 89 dB SPL/W/m; imp 6 ohms; oak vinyl; 12" w x 20.75" h x 10.25" d $310/pr

RS 2000 2-Way Speaker
Bookshelf acoustic-suspension speaker with 6.5" cone woofer and 35 mm polycell dome tweeter. FR 57-22,000 Hz ± 3 dB; min power 15 W rms; max power 75 W rms; sens 89 dB SPL/W/m; imp 6 ohms; oak vinyl; 8.8" w x 14.25" h x 7.75" d $200/pr

RS 1000 2-Way Speaker
Bookshelf acoustic-suspension speaker 4.5" cone woofer and 35 mm polycell dome tweeter. FR 72-22,000 Hz ± 3 dB; min power 8 W rms; max power 50 W rms; sens 89 dB SPL/W/m; imp 6 ohms; oak vinyl; 7.5" w x 12.75" h x 6.75" d. $146/pr

JAMO

Digital Monitor Series
All Jamo Digital Monitor speakers feature Jamo's Center Bass Reflex technology for increased sound pressure at low frequencies and decreased sound coloration, phased-aligned drivers, anthracite finish, and detachable grilles.
Digital 200. 3-way speaker with 10" woofer, 5" midrange, and 1" dome tweeter. Features treble and midrange sound pressure control; treble overload diode. Peak power 300 W; continuous power 200 W; sens 92 dB SPL/W/m; FR 20-24,000 Hz ± 3 dB; crossover frequencies 540 and 3,800 Hz; imp 8 ohms. 32.25" x 15.75" x 13.75"; 53 lb $1,198/pr
Digital 120. 3-way speaker with 8" woofer, 4" midrange, and 1" dome tweeter. Features treble sound pressure control; treble overload diode. Peak power 180 W; continuous power 120 W; sens 91.2 dB SPL/W/m; FR 30-22,000 Hz ± 3 dB; crossover frequencies 890 and 4,900 Hz; imp 8 ohms. 27.5" x 13.75" x 11.75"; 37.5 lb. $798/pr
Digital 90. 3-way speaker with 6.5" woofer, 4" midrange, and 1" dome tweeter. Features treble sound pressure control; treble overload diode. Peak power 130 W; continuous power 90 W; sens 90 dB SPL/W/m; FR 35-20,000 Hz ± 3 dB; crossover frequencies 960 and 5,000 Hz; imp 8 ohms. 23.5" x 11.75" x 9.75"; 24 lb $598/pr
Digital 70. 3-way speaker with 5.5" woofer, 3" midrange, and 1" dome tweeter. Features treble overload diode. Peak power 100 W; continuous power 70 W; sensitivity 89 dB SPL/W/m; FR 40-20,000 Hz ±3 dB; crossover frequencies 1,200 and 4,600 Hz; impedance 8 ohms. 19" x 9.5" x 6"; 15.4 lb $398/pr

Professional Series
All Jamo Professional Series 3-way speakers are bass reflex and incorporate Jamo's proprietary Controlled Dispersion treble array of multiple horn-mounted tweeters. All Professional Series speakers feature XLR connection sockets and

screwed terminals for large cables; removable wire-mesh grilles; black finish; reinforced corners, and a self-locking fixture for easy stacking.

Professional 400. Features 15″ woofer; 5″ horn midrange; 5 1″ horn tweeters. Peak power 560 W; continuous power 400 W; sens 95 dB SPL/W/m; FR 25-20,000 Hz ± 3 dB; crossover frequencies 900 and 4,000 Hz; imp 8 ohms; max sound pressure 121 dB. 35.5″ x 20.5″ x 16.75″; 92.6 lb1,800/pr

Professional 300. Features 12″ woofer; 5″ horn midrange; 3 1″ horn tweeters. Peak power 420 W; continuous power 300 W; sens 94 dB SPL/W/m; FR 30-20,000 Hz ± 3 dB; crossover frequencies 1,000 and 5,000 Hz; imp 8 ohms; max sound pressure 118 dB. 29.5″ x 17.33″ x 13.33″; 57.3 lb 1,200/pr

Professional 200. Features 10″ woofer; 5″ horn midrange; 1″ horn tweeter. Peak power 280 W; continuous power 200 W; sens 93 dB SPL/W/m; FR 35-20,000 Hz ± 3 dB; crossover frequencies 1,200 and 6,000 Hz; imp 8 ohms; max sound pressure 116 dB. 25.6″ x 14.75″ x 11.5″; 42 lb 800/pr

Compact Line Series

C120. Bookshelf 3-way bass-reflex speaker with 8″ dual-magnet woofer, 5″ midrange, and 1″ dome tweeter. FR 38-20,000 Hz ± 3 dB; peak power 140 W; continuous power 120 W; sens 92 dB SPL/W/m; crossover frequencies 1,200 and 5,000 Hz; imp 8 ohms. Black or white finish. 16.5″ x 10.25″ x 8.75″; 14.3 lb $320/pr

C90. Bookshelf 3-way bass-reflex speaker with 8″ cone woofer, 3.25″ cone midrange, and 1″ dome tweeter. FR 40-20,000 Hz ± 3 dB; peak power 120 W; continuous power 90 W; sens 91.6 dB SPL/W/m; crossover frequencies 1,200 and 4,000 Hz; imp 8 ohms. Black or white finish. 14.5″ x 9″ x 8.75″; 11 lb $240/pr

C70. Bookshelf 2-way bass-reflex speaker with 6.5″ woofer and 1″ dome tweeter. FR 45-20,000 Hz ± 3 dB; peak power 90 W; continuous power 70 W; sens 90 dB SPL/W/m; crossover frequency 2,500 Hz; imp 8 ohms. Black or white finish. 12″ x 7.5″ x 8.25″; 8.4 lb $190/pr

C50. Bookshelf 2-way bass-reflex speaker with 4″ cone woofer and 2″ cone tweeter. FR 70-20,000 Hz ± 3 dB; peak power 60 W; continuous power 50 W; sens 89 dB SPL/W/m; crossover frequency 2,600 Hz; imp 4 ohms. Black finish. 6.5″ x 4″ x 6.75″; 2.9 lb $160/pr

JBL

LT Series

L100T 3-Way Speaker
Floor-standing speaker with 12″ aquaplas-laminate woofer, 5″ high-polymer-laminate midranger, and 1″ pure-titanium-diaphram tweeter. Max power 200 W continuous, 800 W peak; crossovers 800 and 4,500 Hz; sens 91 dB SPL/W/m. Oiled hardwood veneer. 36.5″ h x 16″ w x 13.25″ d; 70 lb $1150/pr

L80T 3-Way Speaker
Floor-standing speaker with 10″ aquaplas-laminate woofer; 5″ polymer-laminate midrange; 1″ pure-titanium-diaphram tweeter. Power handling: 150 W continuous, 600 W peak; crossovers 800 and 4,500 Hz; sens 90 dB SPL/W/m. Oiled hardwood veneer. 33.5″ h x 14″ w x 11.75″ d; 53 lb $850/pr

L60T 2-Way Speaker
Floor-standing speaker with 8″ high-polymer-laminate woofer and 1″ pure-titanium tweeter. Power handling: 120 W continuous, 400 W peak; crossover 2,500 Hz; sens 89 dB SPL/W/m. Oiled hardwood veneer; 30.5″ high x 12″ wide x 10″ deep; 38 lb $590/pr

L20T 2-Way Speaker
Bookshelf speaker with 6 5″ filled-polypropelene woofers and 1″ pure-titanium-diaphram tweeter. Power handling: 100 W continuous; 400 W peak; crossover 3,000 Hz; sens 88 dB SPL/W/m. Oiled hardwood veneer. 9.36″ high x 14.75″ wide x 8.5″ deep; 36 lb $430/pr

JBL Series

JBL 940 4-Way Speaker
Floor-standing bass-reflex speaker with 1″ titanium-laminate dome tweeter, 10″ x 8″ high-polymer-laminate cone woofers, and 5″ high-polymer-

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laminate cone midrange. FR 34-25,000 Hz ± 3 dB; min power 10 W rms, max power 300 W rms; sens 94 dB SPL/W/m; impedance 4 ohms; rosewood vinyl finish. 65 lb; 18.5" wide x 43.75" high x 10.25" deep $790/pr

JBL 830 3-Way Speaker
Floor-standing bass-reflex speaker with 2 8" high-polymer-laminate cone woofers, and 1" titanium-laminate dome tweeter. FR 40-25,000 Hz ± 3 dB; minimum power 10 W rms, max power 200 W rms; sens 94 dB SPL/W/m; imp 4 ohms; rosewood vinyl finish; 53 lb; 16.75" w x 39.75" h x 8.75" d $590/pr

JBL 630 3-Way Speaker
Floor-standing bass-reflex speaker with 2 6.5" high-polymer cone woofers and 1" titanium-laminate dome tweeter. FR 42-25,000 Hz ± 3 dB; min power 10 W rmss, max power 150 W rms; sens 93 dB SPL/W/m; imp 4 ohms; rosewood vinyl finish. 40 lb; 15" w x 35.75" h x 8.25" D $450/pr

JBL 82 2-Way Speaker
Floor-standing bass-reflex speaker with 8" polymer-laminate cone woofer and 1" titanium-laminate dome tweeter. FR 45-25,000 Hz ± 3 dB; min power 10 W rms; max power 125 W rms; sens 90 dB SPL/W/m; imp 8 ohms; rosewood vinyl finish. 30 lb; 14" w x 22" h x 8" d $330/pr

JBL 62 2-Way Speaker
Bookshelf bass-reflex speaker with 6.5" high-polymer-laminate cone woofer and 1" dome tweeter. FR 55-25,000 Hz ± 3 dB; min power 10 W rms, max power 100 W rms; sens 89 dB SPL/W/m; imp 8 ohms; rosewood vinyl finish. 16 lb; 10" w x 16" h x 7" d $230/pr

Ti Series

250 Ti 4-Way Speaker 8400.-
Floor-standing speaker with 14" woofer, 8" lower midrange, 5" polypropylene midrange, and 1" titanium-diaphram tweeter. Mirrored-image SFG magnetic structure. Max power 400 W; nominal impedance 8 ohms; crossovers 400, 1,400, and 5,200 Hz; sensitivity 90 dB SPL/W/m. Hand-oiled Burmese teak finish. 52" high x 22.5" wide x 14.25" deep; weight 126 lb $3,790/pr

240 Ti 3-Way Speaker
Floor-standing speaker with 14" woofer, polypropelene midrange, and ultra-low-mass pure-titanium-diaphram tweeter. Features SFG magnetic structure. Max power 300 W/ch; nominal imp 8 ohms; crossover 900 Hz, 4,000 Hz; sens 89 dB SPL/W/m. Hand-oiled Burmese teak; 36.62" h x 18" w x 12" d; 85 lb $1,790/pr

120 Ti 3-Way Speaker
Features 12" woofer; polypropylene midrange; ultra-low-mass pure-titanium-diaphram tweeter; SFG magnetic structure. Max power 250 W; nominal imp 8 ohms; crossovers 900 and 4,000 Hz; sens 89 dB SPL/W/m. Hand-oiled Burmese teak; 24.5" h x 14.5" w x 11" d; 54 lb $1,190/pr

18 Ti 2-Way Speaker
Features 6.5" polypropylene woofer; ultra-low-mass pure-titanium-diaphram tweeter; SFG magnetic structure. Max power 200 W; nominal imp 8 ohms; crossover 3,000 Hz; sens 88 dB SPL/W/m. Hand-oiled Burmese teak; 14.75" h x 9.36" w x 7.19" d; 17.5 lb $590/pr

Pro III 2-Way Speaker—Featured on Cover
Audio/video monitor with 1" titanium-dome tweeter, 5" high-polymer mid/low driver, and high-spatial-identification dividing network. Features magnetic shielding; die-cast enclosure material; polypropylene structural foam. Sens 87 dB; max power 100 W rms. 9.5" h x 6.25" w x 5.63" d $240/pr
MTC-1 Adaptor. Clamp-on unit that allows Pro III to be mounted on photo tripods, mic stands and other wall or clamp-mount systems . $35/pr
MTC-2 Wall/Ceiling Mount System. Allows Pro III to be mounted on any rigid surface while permitting the speaker to be aimed in almost any direction. Includes MTC-1 ..... $40 ea
MTC-3 Clamp Mount System. Allows Pro III to be clamped onto variety of objects such as shelves, poles, or table tops while permitting range of adjustments. Includes MTC-2 ... $65 ea

Everest DD55000 3-Wya Speaker
Features constant-directivity design; 15" woofer in vented enclosure; defined-coverage horn-loading midrange; biradial constant-coverage horns; ultra-high-frequency slot-loaded ring radiator; mylar capacitors; aircone inductors; polystyrene and polypropylene bypass capacitors; 3 position switches to vary output levels of compression driver and ring radiator; mid-bass attenuator; high-density compressed wood; Rosewood veneer. Power range 40-250 W; imp 8 ohms; sens 100 dB SPL/W/m; crossovers 850 and 7,500 Hz. Mirror-image pairs. 55.13" h x 36" w x 20" d $9.900/pr

Subwoofers

B460 Subwoofer
Bass system consists of JBL Model 2245H 18" driver mounted in vented enclosure of 8 cubic feet. The combination is third-order quasi-Butterworth. Features die-cast aluminum frame; integrally stiffened cone with foam surround; edge-wound voice coil with 4" diameter and nearly 1" long; individually machined magnetic pole piece and back plate; cone coated with aquaplas damping formulation for optimum mass and density; large high-flux symmetrical-field-geometry magnetic structure in dirvers to reduce second-harmonic distortion; density-compressed wood enclosure; 1" thick and heavily braced. Min recommended power 200 W; imp 8 ohms; crossovers 63 Hz (external crossover); sens 94 dB; magnetic assembly weight 20 lb; 24.81" h x 38.31" w x 24.25" d; shipping weight 125.5 lb ... $1,700 ea

B-380 Subwoofer
Bass system with 15" bass driver and 4" ribbon-wire voice coil in vented alignment. Features hand-crafted oiled American black walnut veneer cabinet; biamp option with BX63A; max recommended power 600 W; crossover frequency 63 Hz; sens 90 dB; 27.5" x 20.75" x 17" ... $750 ea

BX63A Dividing-Summing Network
Electronic dividing-summing network designed to match characteristics of JBL B380 and B460 subwoofers. Features active low-pass filter with crossover frequency continually adjustable from 63 to 125 Hz. Passive high-pass will bridge stereo amp to provide single-ch drive. Provides proper voltage drive for JBL B380 or B460 subwoofers, adjustable imp compensation for different amps. S/N 95 dB; THD 0.01%; max outputs 18 dBV (10,000 ohm output load); IMD SMPTE 0.01%; 2 lb; 5.5" w x 1.88" h x 7.5" d $350

JENSEN

Model 3120 3-Way Speaker
Features 12" cone woofer; 5" midrange; 3" tweeter. FR 48-21,000 Hz; max power 150 W peak, 60 W continuous; imp 8 ohms. 29" h x 15.5" w x 10.5" d; 30 lb $379/pr

Model 3100 3-Way Speaker
Features 10" cone woofer; 5" midrange; 3" tweeter. FR 43 Hz-21 kHz; max power 125 W peak, 50 W continuous; imp 8 ohms. 20" h x 13" w x 10.5" d; 24 lb $299/pr

JPW LOUDSPEAKERS

AP3 Infinite-Baffle Speaker
Features wiring for biamp capabilities; 200-mm doped-paper-cone woofer; 19-mm soft-plastic dome tweeter with Ferrofluid damping. FR 55-20,000 Hz ± 3 dB; min power 10 W rms ; max power 100 W rms; sens 100 dB SPL/W/m; imp 8 ohms Available in walnut, black ash, blonde ash or teak finishes. 53.36 lb/pr; 10.25" w x 20.5" h x 11.5" d $499/pr

AP2 Infinite-Baffle Speaker
Features wiring for biamp capabilities; 200-mm doped-paper-cone woofer; 19-mm soft-plastic dome tweeter with Ferrofluid damping. FR 60-20,000 Hz ± 3 dB; min power 10 W rms; max power 80 W rms; sens 80 dB SPL/W/m; imp 8 ohms. Available in walnut, black, blonde ash and teak finishes. 42.32 lb/pr; 10.25" w x 17.25" h x 10.25" d $349/pr

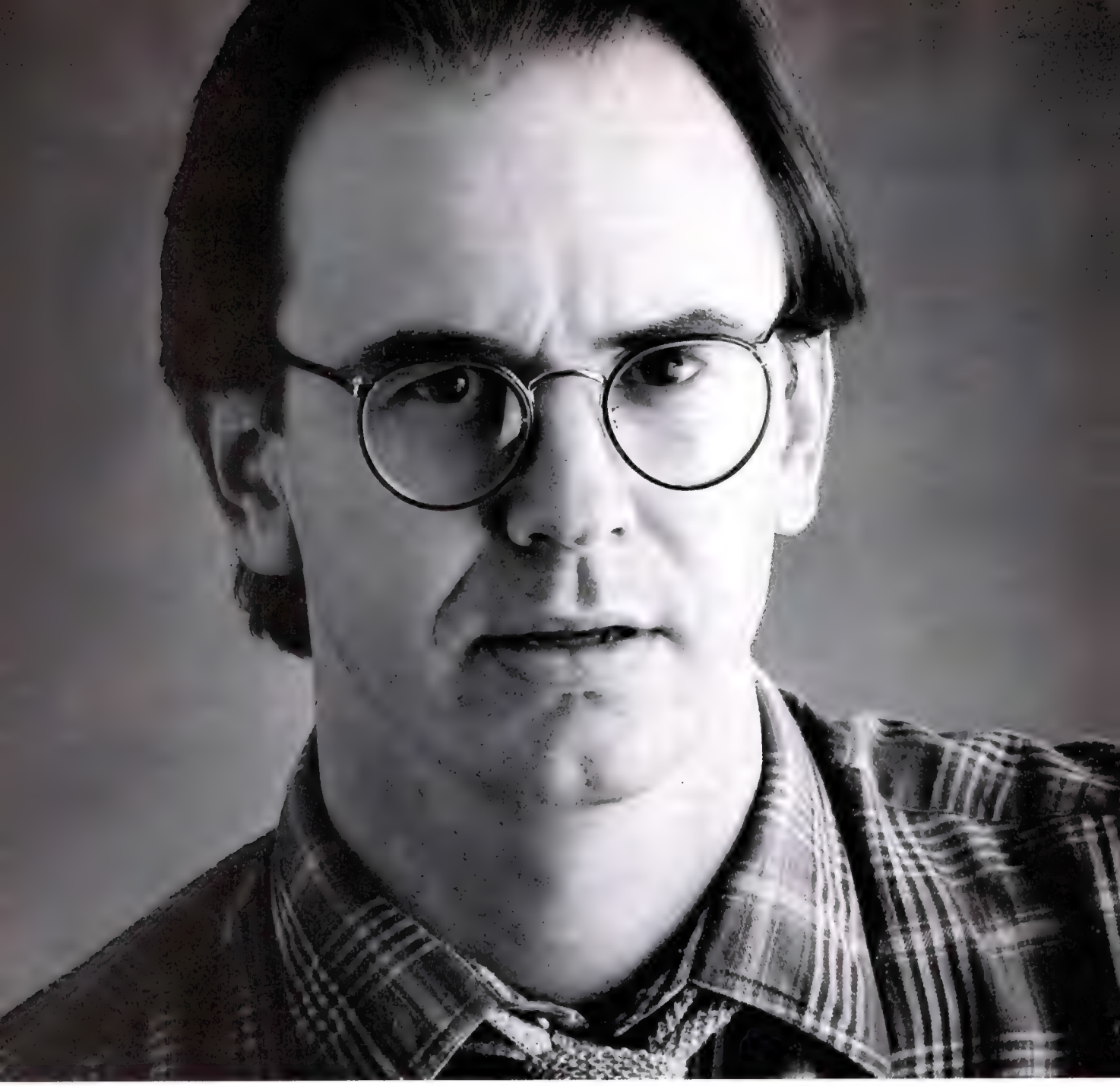
P1 Infinite-Baffle Speaker
Floor-standing speaker features 200-mm doped-paper-cone woofer; 19-mm soft-plastic dome tweeter with Ferrofluid damping. FR 65-20,000 Hz ± 3 dB; min power 10 W rms; max power 70 W rms; sens 90 dB SPL/W/m; imp 8 ohms. Available in walnut and black finishes. 33.5 lb/pr; 10.25" w x 17.25" h x 10.25" d $299/pr

J.S. ENGINEERING (JSE)

Infinite Slope Model 1.8 Speaker
Infinite slope phase shift bass loading speaker with patented phase shift. Contains 8" and 10" cone woofers, 6" cone midrange, and 28 mm dome tweeter. FR 35-20,000 Hz ± 3 dB; minimum power 20 W rms, max power 300 W rms; sens 90 dB SPL/W/m; imp 8 ohms; oak, walnut, black gloss; 100 lb; 16" w x 38" h x 16" d .. $1,695/pr

Infinite Slope Model 1 Loudspeaker
Sealed floor-standing speaker featuring Infinite Slope crossover and patented Phase Shift Bass Loading. Front of speaker angled 15°. Two cone woofers 7", 8"; 28 mm dome tweeter. Available in oak, walnut, black gloss. FR 40-20,000 Hz ± 2 dB; power range 10-150 W; imp 8 ohms; sens 90 dB SPL/W/m; 13" x 29" x 14.5" $995/pr
Model 2. Similar to above except has cone woofers of 12" and 10", with 6.5" cone and 2" dome midranges, 21 mm dome tweeter. Front of speaker angled 8°. FR 25-24,000 Hz ± 2 dB; power range 50-350 W; sensitivity 90 dB SPL/W/m; nominal impedance 8 ohms; 47" high x 18" wide x 16" deep at bottom of enclosure, 11" deep at top; 150 lb $2,295/pr

PRICES LISTED
are manufacturers' suggested retail prices
(also referred to as *list* prices);
actual selling prices are set by individual dealers.
All prices are subject to change without notice.



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Infinite Slope Model .6 Speaker
Floor-standing ported speaker with infinite slope crossover (100 dB/octave). Features 8″ cone woofer; 1″ dome tweeter. FR 40-20,000 Hz ± 3 dB; power range 5-150 W; sens 91 dB SPL/W/m; imp 8 ohms; walnut, oak, black lacquer finish; 11″ w x 23″ h x 13″ d; 35 lb $599/pr

JVC

SX-A3 2-Way Speaker
Bookshelf passive-radiator speaker with self-restoring protection for more tweeter power handling, LED overload indicator. Magnetically shielded for both audio and video use. Features 8″ x 12″ passive radiator; 8″ cone woofer; 1″ soft-dome tweeter. FR 35-23,000 Hz ± 3 dB; power handling capacity 130 W/200 W (music); sens 88 dB SPL/W/m; imp 6 ohms. Wood finish. 13.5″ w x 24.5″ h x 11.31″ d; 31 lb..... $400/pr

SX-A6 4-Way Speaker
Floor-standing 4-way 5-speaker system with two 3″ ambience-enhancement drivers in rear, self-restoring protection for more tweeter power handling, LED overload indicator. Features 9.25″ x 13.75″ passive radiator; 8″ cone woofer; 1.25″ soft-dome midrange; 1″ soft-dome tweeter. FR 25-23,000 Hz ± 3 dB; power-handling capacity 150 W rms, 240 W music; sens 89 dB SPL/W/m; imp 6 ohms. Wood finish. 15.36″ w x 31.88″ h x 10.23″ d; 38.6 lb .....$250 ea

SP5WD 3-Way Speaker
Floor-standing 3-way bass-reflex speaker with low-magnetic-leakage design for A/V use. Features 12″ woofer; dark walnut finish. Power handling capacity: 120 W/240 W (music); imp 8 ohms .....$135 ea

SP3WD 3-Way Speaker
Floor-standing 3-way bass-reflex speaker with low-magnetic-leakage design for A/V use. Features 10″ woofer; dark walnut finish. Power handling capacity: 100 W/200 W (music); imp 8 ohms $220/pr

KEF

Reference Series

Model 107 3-Way Speaker
Floor-standing coupled-cavity bass-loading speaker uses 2 woofers operating into resonant chamber vented at top of enclosure to combine sensitivity of bass reflex with accuracy and bass-extension of acoustic suspension. Features 2 10″ cone woofers; 4″ polypropylene-cone midrange; 1″ ferrofluid-cooled soft-dome tweeter; pivoting midrange/tweeter head assmebly with individual contoured enclosures for minimum diffraction, reduced off-axis coloration, and optimum stereo imaging; hybrid crossover network with built-in passive crossover and outboard KUBE active bass EQ with controls for contour, damping, and extension. Conjugate load-matched passive crossover presents amp with uniform imp at all frequencies. FR 20-20,000 Hz ± 2 dB; min power 50 W rms; max power 300 W rms; sens 90 dB SPL/W/m; imp 4 ohms. Walnut, black ash, rosewood. 13″ w x 46″ h x 17.75″ d; 99 lb $3,900
104/2 KUBE. Active bass EQ with controls for contour and extension $200

104/2 3-Way Speaker
Floor-standing speaker with cone woofers vertically aligned, coupled-cavity bass loading technique, chassis-less drivers, conjugate load matching. Two 8″ cone woofers, two 4.5″ cone midranges and 1″ ferrofluid-cooled dome tweeter. FR 55-20,000 Hz ± 2 dB; power range 25-200 W; sensitivity 92 dB sound-pressure level with input of 1 watt measured at 1 meter; imp 4 ohms; 11″ w x 35.5″ h x 16.36″ d; 70.5 lb. Walnut or black ash finish $1,800/pr
Rosewood finish $1,850/pr
104/2 KUBE. Active bass EQ with controls for contour and extension $200

103/3 3-Way Speaker
Bookshelf coupled-cavity bass-loading speaker with woofer operating into resonant chamber vented at bottom of enclosure to combine sensitivity of bass reflex with accuracy and bass-extension of acoustic suspension. Features 8″ cone woofer; 6″ polypropylene-cone midrange; 1″ ferrofluid-cooled soft-dome tweeter; hybrid crossover network with built-in passive crossover and outboard KUBE active bass EQ with controls for contour and extension. Conjugate load-matched passive crossover presents amp with uniform imp at all frequencies. FR 50-20,000 Hz ± 2 dB; min power 50 W rms; max power 200 W rms; sens 92 dB SPL/W/m; imp 4 ohms. Walnut, black ash, rosewood. Includes feet for shelf mounting. 10.5″ w x 22.75″ h x 12.5″ d; 38 lb $1,390/pr
KS103/3. Optional floor stands for free-standing placement $109/pr

Model 102 2-Way Speaker
Bookshelf closed-box speaker with 6″ polypropylene-cone woofer and 1″ ferrofluid-cooled soft-dome tweeter. Features hybrid crossover network with built-in passive crossover and outboard KUBE active bass EQ with controls for contour and extension. Conjugate load-matched passive crossover presents amp with uniform imp at all frequencies. FR 65-20,000 Hz "2 dB; min power 50 W rms; max power 200 W rms; sens 92 dB SPL/W/m; imp 4 ohms. Walnut, black ash, rosewood. 8.25″ w x 13″ h x 10.5″ d; 15 lb $790/pr
ULS20. Optional floor stands $125/pr

C Series

C80 3-Way Speaker
Floor-standing closed-box speaker with conjugate load-matched crossover network that presents amp with uniform imp at all frequencies. Features flat-diaphragm woofer; 6″ polypropylene-cone midrange; 1″ ferrofluid-cooled soft-dome tweeter; matched real-wood walnut, rosewood, or black ash veneers. FR 50-20,000 Hz ± 3 dB; min power 15 W rms; max power 150 W rms; sens 89 dB SPL/W/m; imp 4 ohms. 10.5″ w x 33.5″ h x 12.5″ d; 44 lb $1,090/pr

C60 2-Way Speaker
Bookshelf closed-box speaker with conjugate load-matched crossover network that presents amp with uniform imp at all frequencies. Features 8″ polypropylene-cone woofer with die-cast alloy chassis; 1″ ferrofluid-cooled soft-dome tweeter; matched real-wood walnut, rosewood, or black ash veneers. FR 66-20,000 Hz ± 3 dB; min power 10 W rms; max power 100 W rms; sens 89 dB SPL/W/m; imp 4 ohms. 10″ w x 18.5″ h x 12.25″ d; 27 lb $690/pr
KS340. Optional stands $109/pr

C40 2-Way Speaker
Floor-standing closed-box speaker with 3rd-order bass loading to increase low-frequency extension and power handling. Features two 8″ polypropylene-cone woofers; 1″ soft-dome tweeter. FR 68-20,000 Hz ± 3 dB; min power 10 W rms; max power 100 W rms; sens 91 dB SPL/W/m; imp 8 ohms. Simulated black ash and walnut finishes. Cabinet measures 9.75″ wide x 25.75″ high x 10.5″ deep; 21 pounds each $490/pr
KS150. Optional stands $79/pr

C30 2-Way Speaker
Bookshelf closed-box speaker with 8″ polypropylene-cone woofer and 1″ soft-dome tweeter. FR 70-20,000 Hz ± 3 dB; min power 10 W rms; max power 100 W rms; sens 90 dB SPL/W/m; imp 8 ohms. Simulated walnut and black ash finishes. 9/75″ w x 20″ h x 8.5″ d; 16 lb $350/pr
KS280. Optional stands $89/pr

C20 2-Way Speaker
Bookshelf closed-box speaker with 3rd-order bass loading to increase low-frequency extension and power handling. Features 8″ polypropylene-cone woofer; 1″ soft-dome tweeter; shelved low-frequency response. FR 72-400 Hz ± 3 dB rising 3 dB to ± 3 dB 800-20,000 Hz; min power 10 W rms; max power 100 W rms; sens 90 dB SPL/W/m; imp 8 ohms. Simulated black ash and walnut finishes. 9.75″ w x 13.5″ h x 8.5″ d; 12 lb$290/pr

C10 2-Way Speaker
Bookshelf closed-box speaker with 3rd-order bass loading to increase low-frequency extension and power handling. Features 6″ polypropylene-cone woofer; 1″ soft-dome tweeter; shelved low-frequency response. FR 90-500 Hz ± 3 dB rising 3 dB to ± 3 dB 1,000-20,000 Hz; min power 10 W rms; max power 60 W rms; sens 88 dB SPL/W/m; imp 8 ohms. Simulated black ash and walnut finishes. 8.25″ w x 12″ h x 7″ d; 8 lb $220/pr

KENWOOD

LS-P9100 4-Way Speaker
Basic Series floor-standing speaker with 17″ passive radiator. Features 10.5″ polypropylene woofer; 4″ polypropylene midrange; flat-leaf supertweeter plus 2 cone tweeters in wide dispersion Ton-Säule vertical array; high-grade crossover network; auto-resetting overload protector; high-rigidity enclosure; simulated rosewood finish. Max input power 250 W; sens 91 dB/W/m; crossover FR 900, 5,500, 10,000 Hz; imp 8 ohms. 17.31″ w x 44.5″ h x 13.25″ d; 62 lb .. $720/pr

LS-P5100 4-Way Speaker
Basic Series floor-standing speaker with 13″ passive radiator. Features 8.5″ polypropylene woofer; 4″ polypropylene midrange; flat-leaf supertweeter plus 2″ cone tweeter in wide dispersion Ton-Säule vertical array; high-grade crossover network; auto-resetting overload protector; high rigidity enclosure; simulated rosewood finish. Max input power 150 W; sens 90 dB/W/m; crossover FR 800, 5,000, 10,000 Hz; imp 8 ohms. 14.56″ w x 35.44″ h x 10.69″ d; 40 lb . $480/pr

LSK-702W 3-Way Speaker
Features acoustic-suspension enclosure; 12″ woofer; 4.5″ midrange; 2″ cone tweeter. Max input power 160 W; sens 91 dB/W/m; imp 8 ohms; simulated woodgrain finish. 14.81″ w x 26″ h x 10.56″ d; 26.5 lb $285/pr

LSK-502W 3-Way Speaker
Features acoustic-suspension enclosure; 10″ woofer; 4.5″ midrange; 2″ cone tweeter. Max input power 130 W; sens 90 dB/W/m; imp 8 ohms; simulated woodgrain finish. 14″ w x 24.19″ h x 10.56″ d; 23 lb $220/pr

LSK-302W 2-Way Speaker
Features bass-reflex enclosure; 12″ woofer; 4.5″ midrange; 2″ cone tweeter. Max input power 160 W; sens 91 dB/W/m; imp 8 ohms; simulated woodgrain finish. 12.81″ w x 22.31″ h x 8.56″ d; 16.5 lb $145/pr

LSK-05S Surround Speaker
Full-range speaker for rear-channel sound. Fea-

For explanations of abbreviations, specifications, and technical terms, consult the glossary on page 221.

tures 4″ x 6″ dual-cone driver; acoustic suspension wedge-shape enclosure designed for horizontal or vertical placement. sens 90 dB SPL/W/m; imp 8 ohms. Simulated woodgrain finish; 7.69″ w x 10.88″ h x 5.69″ d; 3.1 lb $89/pr

LSK-01S Surround Speaker
Full-range speaker for rear-channel sound. Features 4″ driver; acoustic-suspension enclosure. sens 90 dB SPL/W/m; imp 8 ohms. Simulated woodgrain finish; 7.69″ w x 10.88″ h x 5.69″ d; 3.1 lb $49/pr

KEVEK BY RMI

ES.12 3-Way Floor-Standing Speaker
Ported speaker; 8-sided cabinet houses 12″ cone woofer; 6.5″ cone midrange; 19-mm dome tweeter. FR 30-20,000 Hz ± 3 dB; power range 20-300 W; sens 90 dB SPL/W/m; imp 8 ohms. Natural or black grilles. 22″ w x 49.5″ h x 11″ d; 50 lb $1,790/pr

ES.10 3-Way Floor-Standing Speaker
Ported speaker; 8-sided slim-planar cabinet houses 10″ cone woofer, 6.5 midrange, 19-mm dome tweeter. FR 50-20,000 Hz ± 3 dB; power range 20-200 W; sens 89 dB SPL/W/m; imp 8 ohms. Natural or black grilles. 20″ w x 40″ h x 10.75″ d; 43 lb $1,290/pr

ES.8 2-Way Floor-Standing Speaker
ported speaker. 8-sided cabinet houses 8″ cone woofer, 19-mm tweeter. FR 55-20,000 Hz ± 3 dB; power range 20-150 W; sens 87 dB SPL/W/m; imp 8 ohms. Natural or black grilles. 18″ w x 31.75″ h × 10.25″ d; 31 lb $900/pr

ES.6 2-Way Ported Speaker
6.5″ cone woofer, 19-mm dome tweeter. FR 60-20,000 Hz ± 3 dB; power range 10-150 W; sens 88 dB SPL/W/m; imp 8 ohms. Natural or black grille; 12.5″ w x 20″ h x 8″ d; 18 lb ... $495/pr

KINDEL AUDIO

PLS-A 2-Way Speaker
Floor-standing line-source speaker with vertical array of 6 6.5″ woofers and 16 1″ dome tweeters. FR 35-22,000 Hz ± 3 dB; power range 5-500 W rms; sens 94 dB SPL/W/m; imp 8 or 2 ohms. Available in oak or walnut finish. 22″ w x 67″ h x 9″ d; 130 lb ea $2,000/pr

P-200 MKII 2-Way Speaker
Sealed-box speaker with high-frequency control, binding posts, and low-diffraction grille. Features 2 6.5″ polypropylene woofers (1 for low bass and 1 for mid bass); 2.5″ cone tweeter; 0.75″ dome supertweeter. FR 40-22,000 Hz ± 3 dB; power range 5-100 W; sens 90 dB SPL/W/m; imp 4 ohms; crossover frequencies 300, 1,500, and 8,000 Hz. Natural or dark oak finish. 10″ W x 24″ h x 10″ d; 32 lb $600/pr

P-100 MKII 2-Way Speaker
Sealed-box speaker designed for stand placement. Features high-frequency control; binding posts; low-diffraction grille; 6.5″ polypropylene woofer; 2.5″ cone tweeter; 0.75″ dome supertweeter. FR 45-22,000 Hz ± 3 dB; power range 5-50 W; sens 86 dB SPL/W/m; imp 8 ohms; crossover frequencies 1,500 and 8,000 Hz. Natural or dark oak finish. Cabinet measures 9″ wide x 18″ high x 9″ deep; 21 lb $350/pr

P-50 MKII 2-Way Speaker
Sealed-box speaker designed for stand placement. Features high-frequency control; binding posts; low-diffraction grille; 6.5″ polypropylene woofer; 2.5″ cone tweeter. FR 50-20,000 Hz ± 3 dB; power range 5-50 W; sens 86 dB SPL/W/m; imp 8 ohms; crossover frequency 2,500 Hz. Natural or dark oak finish. 8″ wide x 14″ high x 8″ deep; 16 lb $250/pr

The Purist Series

Purist LT 2-Way Speaker
Floor-standing speaker using 2 pi/4 pi configuration. Features 2 6.5″ polypropylene cone woofers; 1″ dome tweeter; bass loading via 8″ passive radiator in loaded-line configuration. FR 35-20,000 Hz ± 2 dB; imp 4 ohms. 13″ w x 43″ h x 6.5″ d; 60 lb $700/pr

Purist ST 2-Way Speaker
Floor-standing speaker features 6.5″ polypropylene cone woofer; 0.75″ dome tweeter; 6.5″ passive radiator in loaded-line configuration. FR 35-20,000 ± 2 dB; imp 4 ohms. 13″ w x 43″ h x 6.5″ d; 47 lb $525/pr

KINETIC AUDIO

Titan 6-Way Speaker
Floor-standing ported speaker. 12″ polypropylene cone subwoofer; 12″ polypropylene cone woofer; 6.5″ polypropylene cone mid/woofer; 2″ textile-dome midtweeter; 1.12″ synthetic-dome tweeter; 0.75″ synthetic-dome supertweeter. Crossover points 60, 90, 500, Hz; linear-phased driver arrangement in mirror-image pairs; front-mounted fuse and noninductive level controls. Interconnecting harness of color-coded high-performance speaker cables; 5-way heavy-duty binding posts. Mirror-matched high-grade walnut veneer. Black grille with nonresonant frame. FR 12-22,000 Hz ± 1.5 dB; min power 35 W, max power 250 W; sens 90 dB SPL/W/m; imp 4 or 8 ohms; 245 lb; 18″ w x 60″ h x 22″ d. Grilles, stands, and casters included $5,000/pr

Trapezium 5-Way Speaker
Floor-standing ported speaker. 12″ polypropylene-cone woofer; 6.5″ polypropylene-cone midrange; 2″ textile-dome midtweeter; 1.12″ synthetic-dome tweeter; 0.75″ synthetic-dome supertweeter (tweeters have magnetic-fluid cooling/damping). Crossover points at 90, 500, 3,000, 7,000 Hz; linear-phased driver arrangement in mirror-image pairs; front-mounted fuse and noninductive level controls. Interconnecting harness of color-coded high-performance speaker cables; 5-way heavy-duty binding posts. Mirror-matched high-grade walnut veneer. Black grille with nonresonant frame. FR 12-22,000 Hz ± 1.0 dB; min power 45 W, max 200 W; sens 90 dB SPL/W/m; imp 6 ohms; 205 lb; 16″ w x 60″ h x 20″ d. Includes grilles, stands, casters $4,000/pr

Labyrinth 4-Way Speaker
Floor-standing ported speaker. 12″ polypropylene-cone woofer; 6.5″ polypropylene-cone midrange; 2″ textile-dome midtweeter; 1.12″ synthetic-dome tweeter (both tweeters have magnetic-liquid cooling/damping). Crossover points 90, 500, 3,000 Hz; linear-phased driver arrangement in mirror-image pairs; front-mounted fuse and noninductive level controls. Interconnecting harness of color-coded high-performance speaker cables; 5-way heavy-duty binding posts. Mirror-matched high-grade walnut veneer. Black grille with nonresonant frame. FR 16-22,000 Hz ± 1.5 dB; min power 35 W, max 200 W; sens 91 dB SPL/W/m; imp 6 ohms; 185 lb; 16″ w x 48″ h x 18″ d. Includes grilles, stands, and casters..... $3,000/pr

Trapezoid 4-Way Speaker
Floor-standing ported speaker. 12″ polypropylene-cone woofer; 6.5″ polypropylene-cone midrange; 1.12″ synthetic-dome tweeter with magnetic-liquid cooling/damping; 0.75″ synthetic-dome supertweeter with magnetic-liquid cooling/damping. Crossover points 90, 2,000, 7,000 Hz; linear-phased driver arrangement in mirror-image

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pairs; front-mounted fuse and noninductive level controls. Interconnecting harness of color-coded high-performance speaker cables; 5-way heavy-duty binding posts. Mirror-matched high-grade walnut veneer. Black grille with nonresonant frame. FR 18-22,000 Hz ± 1.5 dB; min power 20 W, max 200 W; sens 92 dB SPL/W/m; imp 8 ohms; 115 lb; 16″ w x 40″ h x 14″ d . $2,000/pr

Stat Monitor
Floor-standing or large-shelf 3-way ported speaker. Features 12″ polypropylene-cone woofer; 6.5″ polypropylene-cone midrange; 1.12″ synthetic-dome tweeter with magnetic-liquid cooling/damping. Crossover points 90, 2,000 Hz; linear-phased driver arrangement in mirror-image pairs; front-mounted fuse and noninductive level controls. Interconnecting harness of color-coded high-performance speaker cables; 5-way heavy-duty binding posts. Mirror-matched high-grade walnut veneer. Black grille with nonresonant frame. FR 18-22,000 Hz ± 1.5 dB; min power 15 W, max 200 W; sens 93 dB SPL/W/m; imp 8 ohms; 95 lb; 14.5″ w x 26″ h x 14″ d . $1,000/pr

Stat Miniature Monitor
2-way ported speaker. Features 6.5″ polypropylene-cone woofer; 1.12″ synthetic-dome tweeter with magnetic-liquid cooling/damping; crossover point 2,000 Hz; linear-phased driver arrangement in mirror-image pairs; front-mounted fuse and noninductive level controls. Interconnecting harness of color-coded high-performance speaker cables. 5-way heavy-duty binding posts. Mirror-matched high-grade walnut veneer. Black grille with nonresonant frame. Frequency response 38-22,000 Hz ± 2 dB; minimum power 5 W, maximum 150 W; sensitivity 93 dB SPL/W/m; impedance 8 ohms; 30 lb; 9″ w x 15″ h x 9″ d$700

Subwoofers

Trapezoid Subwoofer
Floor-standing subwoofer with 12″ polypropylene-cone driver, built-in 180-Hz passive crossover, and separate direct-to-woofer terminals. May be used with electronic crossover or optional low-loss 4-point passive crossover/low-pass filter, in mirror-image pairs. Features interconnecting harness of color-coded high-performance speaker cables; 5-way heavy-duty binding posts. Mirror-matched high-grade walnut veneer. Black grille with nonresonant frame. FR 16-2,000 Hz ± 1.5 dB; min power 25 W, max 350 W; sens 92 dB SPL/W/m; imp 8 ohms; 95 lb; 16″ w x 40″ h x 14″ d $600/pr

Stat Subwoofer
Ported subwoofer with 12″ polypropylene cone driver, built-in 180-Hz crossover, and separate direct-to-woofer terminals. Features interconnecting harness of color-coded high-performance speaker cables; 5-way heavy-duty binding posts; mirror-matched high-grade walnut veneer; black grille with nonresonant frame. FR 18-2,000 Hz ± 2 dB; min power 15 W, max 350 W; sens 93 dB SPL/W/m; imp 8 ohms; 80 lb; 14.5″ w x 26″ h x 14″ d $450/pr

KIRKSAETER

Monitor Tower 260 4-Way Speaker
Floor-standing acoustic-suspension speaker with 2 10″ long-excursion woofers, 4.5″ coated-cone lower midrange, 2″ soft-metal midrange with 2.3-lb magnet; 0.75″ titanium-dome supertweeter with Ferrofluid; 8 wood or 4 glossy lacquer finishes. Power range 10-250 W; sens 93 dB SPL/W/m; imp 4-8 ohms $2,000/pr

Monitor 201 3-Way Bookshelf Speaker
Air-suspension speaker with 12″ long-excursion woofer; 2″ soft-metal midrange; 0.75″ titanium tweeter; crossovers at 600 and 5,000 Hz. Sens 93 dB SPL/W/m; imp 4-8 ohms; 14.2″ w x 24.7″ h x 11.9″ d $1,450/pr

Monitor Tower 140 3-Way Speaker
Floor-standing acoustic-suspension speaker with 10″ long-excursion woofer, 2″ suprynol-dome midrange with 2.3-lb magnet, 0.75″ titanium-dome tweeter; 8 wood or 4 glossy lacquer finishes. Power range 10-140 W; sens 93 dB SPL/W/m; imp 4-8 ohms. 11.12″ w x 37″ h x 11.12″ d $1,400/pr

Monitor 141 3-Way Speaker
Floor-standing or bookshelf infinite-baffle speaker. Features 12″ long-excursion woofer; 2″ soft-metal dome midrange; 0.75″ titanium-dome tweeter. FR 20-32,000 Hz ± 5 dB; imp 4-8 ohms; walnut, mahogany, teak, cherry, black/white/antique/dark/unfinished oak finishes; 13.75″ w x 22.88″ h x 10.62″ d $1,250/pr

Monitor Tower 125 3-Way Speaker
Floor-standing acoustic-suspension infinite-baffle speaker with 8.5″ long-excursion woofer, 2″ suprynol-dome midrange with 2.3-lb magnet; 0.75″ titanium-dome tweeter; 8 wood or 4 glossy lacquer finishes. Power range 10-125 W; sens 93 dB SPL/W/m; imp 4-8 ohms; 9.5″ w x 33″ h x 9.5″ d $1,149/pr

Monitor 121 3-Way Speaker
Bookshelf infinite-baffle speaker. Features 8″ long-excursion woofer; 2″ suprynol dome midrange; 0.25″ titanium-dome tweeter with Ferrofluid magnet. FR 22-32,000 Hz ± 5 dB; power range 10-130 W; sens 92 dB SPL/W/m; imp 4-8 ohms; walnut, mahogany, teak, cherry, black/white/antique/dark/unfinished oak finishes; 12.25″ w x 20.5″ h x 10.25″ d $900/pr

Monitor 101 2-Way Speaker
Bookshelf infinite-baffle speaker. Features 8″ long-excursion woofer; 1″ titanium-dome tweeter with twin magnet. FR 35-32,000 Hz ± 5 dB; power range 10-80 W; sens 92 dB SPL/W/m; imp 4-8 ohms; walnut, mahogany, teak, cherry, black/white/antique/dark/unfinished oak finishes; 10.62″ w x 18.36″ h x 8.62″ d $900/pr

SAT-1 2-Way Ported Speaker
Bookshelf speaker with 4.25″ long-excursion woofer and 7″ titanium-dome midrange/tweeter with twin magnets. FR 68-32,000 Hz ± 5 dB; power range 15-70 W; sens 89 dB SPL/W/m; imp 4-8 ohms; walnut, mahogany, teak, cherry, black/white/antique/dark/unfinished oak finishes; 5.5″ w x 9.88″ h x 7″ d $560/pr

Subwoofers

Subwoofer 501 Active
12″ long-excursion woofer; subsonic filter; standard feedback; room-matching control; double-T filer; RCA/DIN inputs for preamp, CD player, etc.; 1-way crossover at 80, 120, or 160 Hz; choice of finishes. Impulse power 500 W; 16.6″ w x 15.8″ h x 16.2″ d; 46 lb $1,400

Subwoofer 500
Floor-standing infinite-baffle amplified subwoofer with an impulse power of 500 W. Features built-in adjustable electronic crossover (80, 120, 150 Hz); volume control; 12″ long-excursion subwoofer. FR 20-80, 20-120, 20-150 Hz ± 5 dB; max power 500 W; walnut, mahogany, black/antique/unfinished oak finishes; 14.62″ w x 15.12″ h × 14.62″ d $999

The listings are based on data provided by the manufacturers. For more product information, contact an authorized dealer or the manufacturer directly. Manufacturers' addresses and phone numbers are listed in the directory beginning on page 226.

KLIPSCH

Klipschorn 3-Way Speaker
Fully horn-loaded speaker requiring corner placement. Sens 104 dB SPL/W/m; power handling 100 W; FR 35-17,000 Hz ± 5 dB. 52″ h x 31.25″ w x 28.5″ d. Priced depending on finish from approximately $3,198/pr

Belle Klipsch 3-Way Speaker
Horn-loaded floor-standing speaker with same drive components as Klipschorn. Sens 104 dB SPL/W/m; power handling 100 W; FR 45-17,000

Hz ± 5 dB. 35.62″ h x 30.12″ w x 18.75″ d. Available in exotic woods. Priced depending on finish from approx $2,598/pr

La Scala. Fully horn-loaded 3-way speaker similar to Belle Klipsch but available only in natural birch, stained birch, or black finishes. Specs same as Belle Klipsch. 35.5″ h x 23.75″ w x 24.5″ d. Priced depending on finish from approx$1,706/pr

Cornwall II 3-Way Speaker
Features 15″ woofer in ported enclosure; horn-loaded compression tweeter and midrange. Sens 100 dB SPL/W/m; power handling 100 W; FR 38-20,000 Hz ± 3 dB. 35.75″ h x 25.5″ w x 15.5″ d. Available in exotic woods. Priced depending on finish from approx $1,638/pr

Forte 3-Way Speaker
Features horn-loaded compression drivers for tweeter and midrange; 12″ woofer; 12″ passive radiator mounted on rear of cabinet. FR 32-20,000 ± 3 dB; sens 98 dB SPL/W/m; power handling 100 W. 35.38″ h x 16.5″ w x 12″ d. Available in exotic woods. Priced according to finish from approx $1,180/pr

Heresy II 3-Way Speaker
Feature horn-loaded compression tweeter and midrange; 12″ woofer in sealed enclosure. FR 50-20,000 Hz ± 3 dB; max handling power 100 W; sens 96 dB SPL/W/m. 21.36″ h x 15.5″ w x 13.5″ d. Available in exotic woods. Priced depending on finish from approx $882/pr

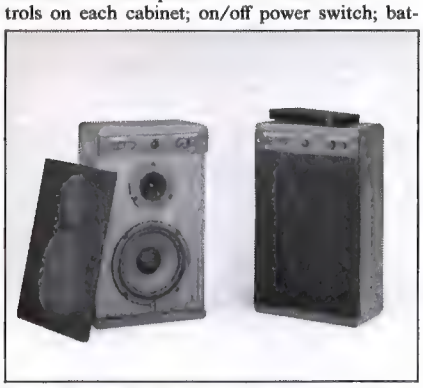
Kg⁴ 2-Way Speaker
Floor-standing speaker with 12″ rear-mounted passive radiator, 2 8″ polymer-cone woofers, and

horn-loaded tweeter. FR 38-20,000 Hz ± 3 dB; max power 100 W; sens 94 dB SPL/W/m. 24.25" h x 15.75" w x 10.75" d. Oak or walnut finish. From approx $598/pr

kg² 2-Way Speaker
Features rear-mounted passive radiator. Crossover frequency 1,800 Hz; FR 35-20,000 Hz ± 3 dB; sens 90 dB SPL/W/m; power handling 65 W. 18.88" h x 11.5" w x 13.25" d. From approx $420/pr

KOSS

JCK/5000 Wireless Speaker System
Infrared wireless speakers with tone/volume controls on each cabinet; on/off power switch; bat-



tery recharger (batteries not included); 2" tweeter; 6.5" woofer; FR 40 Hz-20,00 Hz. 15" w x 9" h x 5" d $350/pr

M/100 Plus Powered Speaker
Built-in 20-watt amp allows connection to any headphone jack of TV, portable tape, or CD player. FR 50-30,000 Hz; S/N 80 dB; THD <5% at 1 kHz; 4 ohm imp. 27 lb/pr $260/pr

M/90 Plus Double-Woofer Speaker
Features 2 4.5" woofers; and 1" dome tweeter. FR 50-30,000 Hz; sens 88 dB SPL/W/m; 4 to 6 ohm imp; max power 20 W continuous, 100 W peak. 12.88" h x 5.25" w x 5.5" d; 30 lb/pr . $220/pr

Dynamite M/80 Plus Speaker
Acoustic-suspension bookshelf speaker with automatic circuit breaker to guard against speaker damage. Features dual-active 4.5" woofers, 1" dome tweeter. FR 50-30,000 Hz ± 3 dB; min power 10 W/rms; max power 100 music; imp 6 ohms. 8 lb. 5.25" w x 12" h x 5.25" d $180/pr

M/60 Plus 2-Way Speaker
Features 1" dome tweeter; 4.5" woofer. FR 100-30,000 Hz; sens 84 SPL/W/m; imp 8 ohms nom, 6 ohms min; power range 15-75 W music. 8.5" h x 4.75" w x 5.5" d $135/pr

LASER AUDIO

FXT-10 MKIV 2-Way Speaker
Floor-standing double-active speaker with two 10" polypropylene-cone woofers; 1" dome tweeter; circuit-overload protection. FR 35-20,000 Hz ± 3 dB; min power 15 W rms: max power 125 W rms; sens 94 dB SPL/W/m; imp 4/8 ohms. Solid-select wood top. 13" w x 33" h x 12" d; 30 lb $600/pr

R-150 MKV 3-Way Speaker
Floor-standing bass-reflex speaker with 12" polypropylene-cone woofer; 4.5" cone midrange; 1" dome tweeter; circuit overload protection. FR 25-20,000 Hz ± 3 dB; min power 15 W rms: max power 150 W rms; sens 95 dB SPL/W/m; imp 4/8 ohms. Solid-select wood top. 16" w x 30" h x 15" d; 40.5 lb $650/pr

R-100 MKV 3-Way Speaker
Floor-standing bass-reflex speaker with 10" polypropylene-cone woofer; 4.5" cone midrange; 1" dome tweeter; circuit-overload protection. FR 35-20,000 Hz ± 3 dB; min power 15 W rms: max power 100 W rms; sens 93 dB SPL/W/m; imp 4/8 ohms. Solid-select maple top. 16" w x 30" h x 15" d; 40.5 lb $600/pr

FXT-8 MKVI 2-Way Speaker
Floor-standing double-active speaker with two 8" polypropylene-cone woofers; 1" dome tweeter; circuit-overload protection. FR 40-20,000 Hz ± 3 dB; min power 15 W rms: max power 100 W rms; sens 92 dB SPL/W/m; imp 4/8 ohms. Solid-select maple top. 13" w x 33" h x 12" d; 30 lb $560/pr

LAZER-TECH SPEAKERS

OM908 3-Way Speaker
Omnidirectional-cabinet monitor system designed to deliver total sound dispersion. 8" translucent long-throw bass driver with matched 8" passive radiator; two 4.5" extended range drivers mounted on 45° side panels; 2 1" soft-dome tweeters also mounted on side panels; 1 6" horn mounted on rear panel; separate bass and midrange isolation chambers; 18° sloped stands; twin rear-firing tuned ports; 3-way computer-matched crossover network. FR 32-35,000 Hz; min power 25 W; max 200 W; sensitivity 91 dB. Finished in oak, teak, or walnut formica; 105 lb/ea; 27" h x 33" w x 11" d $895/pr

PY15 3-Way Speaker
Features pyramid design; 15" poly driver with 54-oz magnet; 4.5" poly-coated extended-range driver; 1" soft-dome tweeter; midrange isolation chamber; exstensive internal bracing; twin rear-firing tuned ports; computer-matched 3-way crossover network. Rosewood or teak finish with removable black grilles. FR 25-25,000 Hz; sens 92 dB SPL/W/m; crossover 600 and 4,700 Hz; min power 20 W; max power 250 W. 37" h x (8.5" x 21.5") w x (6.5" x 14") d; 85 lb ea $795/pr
PY12. Similar to above with 12" long-throw woofer, 4.5" poly-coated midrange, 3.5" phenolic-ring tweeter, computer-tuned port, 3-way crossover. FR 25-22,000 Hz; sens 90 dB SPL/W/m; crossover 700 and 4,000 Hz; min power 10 W; max power 175 W. 32" h x (6" x 17") w x (6.5" x 13") d; 55 lb ea $649/pr

LT12 Tower Monitor Speaker
Features 12" poly woofer; 4.5" extended-range driver; 1" soft-dome tweeter; separate isolation chambers for bass and midrange drivers; extensive internal bracing; 18° sloped-front sound plane; twin rear-firing tuned ports; 3-way computer-matched crossover network. Rosewood or teak finish with removable black grilles. FR 32-25,000 Hz; sens 93 dB SPL/W/m; crossover 700 and 4,000 Hz; minimum power 10 W; maximum power 250 W. Enclosure measures 46.25" high x 14" wide x (6" x 12.5") deep; 90 lb ea . $695/pr

WD 80 Wedge Speaker
Acoustic suspension speaker with 38° off vertical front sound plane and 8" polypropylene woofer; 4.5" midrange; 1" liquid-cooled soft-dome tweeter; 3-way computer-matched crossover. FR 38-25,000 Hz; sens 91 dB; crossover 800 Hz/3,700 Hz; power range 7-150 W; available in oak, walnut, teak, white rosewood, or traditional rosewood formica; 45 lb ea; 36" h x 11" w x 2.5/12.5" d $495/pr

LP 8.8 Acoustic Suspension Speaker
3-way speaker with translucent 8" woofer and computer-matched 8" translucent passive radiator; 4.5" midrange; 1" liquid-cooled soft-dome tweeter; rear-mounted 6" wide-dispersion horn; computer-matched crossover network; separate bass and midrange isolation chambers; internal bracing structure; fuse protection circuit. FR 34-22,000 Hz sens 92 dB; crossover 750 Hz/4,700 Hz; power range 15-200 W; Available in oak, walnut, teak, white rosewood or traditional rosewood formica finishes; 65 lb ea; 43" h x 13" w x 5.5" d $495/pr

PM12 Acoustic-Suspension Speaker
3-way acoustic-suspension speaker with 12" polypropylene woofer, 4.5" midrange and 1" soft-dome tweeter; separate bass and midrange isolation chambers; computer-matched crossover network; FR 32-25,000 Hz; sens 92 dB. Finished in traditional rosewood or teak formica; 32" h x 14" w x 6.5/13" d; 55 lb/ea $489/pr

LINN PRODUCTS BY AUDIOPHILE SYSTEMS

DMS Isobarik Floor-Standing Speaker
Isobarik-loading 3-way speaker with 12", 9" woofers, 5" midrange, 2 1" dome tweeters. Can be triamped. FR 25-20,000 Hz ± 1.5 dB; crossovers at 375 and 3 kHz; instantaneous dynamic range 54 dB; imp 4 ohms; power range 50-500 W; 30" h x 15" w x 16.5" d $3,295/pr

S.A.R.A. Isobarik Bookshelf Speaker
Isobarik-loading 2-way speaker with 2 8" woofers, 1" dome tweeter. Cast structural foam housing. FR 36-20,000 Hz ± 2 dB; imp 4 ohms; 17" h x 13" w x 10" d $1,350/pr

K.A.N. Acoustic-Suspension Speaker
2-way bookshelf speaker with 5" woofer, 1" dome tweeter. FR 70-20,000 Hz ± 3 dB; imp 8 ohms; 12" h x 7.5" w x 6.5" d $550/pr

Index Acoustic-Suspension Speaker
Floor or bookshelf placement; 8" KEF B200 cone woofer; 1" dome tweeter; cabinet of full 0.75" high-density particle board; 50-strand 20-amp cable. FR 60-20,000 Hz ± 3 dB; power range 15-50 W; sens 87 dB SPL/W/m; imp 8 ohms. 11" w x 17" h x 8" D; 17 lb; black woodgrain.. $425/pr

M&K

Satellite 1B 2-Way Speaker
Acoustic-suspension speaker with 2 5" polypropylene woofers and 2 1" soft-dome tweeters. Features 36 tonal balances through midrange; tweeter character switches. Walnut or oak finish with black grille. FR 70-22,000 Hz ± 3 dB; power range 7.5-400 W; imp 4 ohms. 21" h x 7.75" w x 7.62" d; 19 lb $695/pr

Satellite 2B 2-Way Speaker
Acoustic-suspension speaker with 6.5" polypropylene woofer and 1" soft-dome tweeter. Features selector for 36 tonal balances; midrange, treble character switches. Walnut or oak finish with black grille. FR 65-20,000 Hz ± 3 dB; power range 15-100 W. 10.5" h x 6.5" w x 7" d; 9 lb $525/pr

SX-4 2-Way Satellite Speaker
Acoustic-suspension speaker with 2 5" woofers and 2 1" soft-dome tweeters. Features selector for 4 tonal balances via multiple inputs. Black vinyl finish. FR 70-20,000 Hz ± 3 dB $475/pr

Satellite 3B 2-Way Speaker
Acoustic-suspension speaker with 5" polypropylene woofer and 1" soft-dome tweeter. Features selector for 4 tonal balances via multiple inputs. Black finish with black grilles. FR 100-20,000 Hz ± 3 dB; power range 15-100 W. 10.5" h x 7" d x 6.5" w; 9 lb $375/pr
Walnut veneer with balck grilles $425/pr

SX-7 2-Way Satellite Speaker
Bookshelf acoustic-suspension speaker with cir-

cuit-breaker protection. Features cast-aluminum box with perforated metal grille; 4" paper-cone midrange; 0.75" soft-dome tweeter. FR 100-20,000 Hz ± 3 dB; power range 5-100 W; sens 87 dB SPL/W/m; imp 4 ohms. Black finish. 4.5" w x 7.36" h x 4.5" d; 6 lb $220/pr

Subwoofers

V1B Subwoofer
Internally amplified subwoofer with 12" polypropylene driver. Features preamp, power amp inputs; active filtering at 24 dB/octave with adjustable roll-off point. Walnut or oak finish with black grille. FR 18-125 Hz ± 3 dB. 18.75" w x 17.75" h x 15.75" d; 50 lb ..... $800 ea
V2B. Similar to V1B except less powerful. 43 lb ..... $650 ea
V3B. Similar to V2B except less powerful and black painted enclosure. 17.5" h x 17.5" w x 14.5" d; 43 lb ..... $550 ea

VX-4 Subwoofer
Internally amplified subwoofer with 12" driver and 50-W continuous power output. Features adjustable low-pass filter. Black vinyl finish. FR 40-125 ± 3 dB ..... $400 ea

VX-7 Subwoofer
Acoustic-suspention subwoofer with specially designed 50-W amp and 8" paper-cone woofer. FR 50-80 Hz ± 3 dB; max power 50 W internally amplified. Black vinyl finish. 10" w x 11.75" h x 9.5" d; 25 lb ..... $330 ea

Accessories

LP-1S Passive Electronic High-Pass Filter
Line-level electronic high-pass filter for biamping with M&K subwoofers. Available in 8.5" front panel or 19" rack mount. 100 Hz crossover point at 18 dB/octave. With bypass switch $275
Without bypass switch $250

RC-1 Satellite/Subwoofer Remote Control
Allows adjustment of all available tonal characteristics remotely. Features midrange, treble character switches; 100-Hz filter or full-range satellite operation; satellite/subwoofer phase correction; subwoofer level control. 8.75" w x 7.88" d x 2.75" h; 3 lb $185

Satellite Speaker Stand
Stand for M&K satellite speakers. Allows for permanent attachment of satellite to stand. Walnut/oak veneers, black vinyl finishes $95/pr

V Filter
Plug-in high-pass filter for biamping with M&K subwoofers. 100 Hz crossover at 6 dB/octave. 3 versions to match amp input imp $50/pr

MAGNASPHERE by MAGNAT

Delta II, Gamma, and Beta speakers have Soft-Metal Domes; Ribbon-Wire voice coils of oxygen-free copper wound on aluminum core for better heat dissipation and power handling; ball-shaped, baffle-free midrange and tweeter spheres for omni-directional dispersion; black perforated steel grilles.

Delta II Floor-Standing Speaker
6-sided acoustic-suspension speaker with 6 5.25U long-throw woofers; gray or black enamel. FR 32-29,000 Hz ± 3 dB; power range 30-150 W; imp 4 ohms; sens 88.5 dB SPL/W/m; 13.8" w x 44" h x 13.8" d; 65 lb $2,990/pr

Gamma Floor-Standing Speaker
4-sided pyramid-shaped speaker with 2 8" woofers, 2 5.25" midwoofers (1 front, 1 back); European mahogany or black-oak veneer. FR 32-29,000 Hz ± 3 dB; power range 30-150 W; imp 4 ohms; sens 88 dB SPL/W/m; 14" w x 50" h x 14" d; 67 lb $2,190/pr

Beta Floor-Standing Speaker
4-sided pyramid-shaped speaker with 8" woofer, 5.25" midwoofer. European mahogany or black-oak veneer. FR 37-29,000 Hz ± 3 dB; power range 30-120 W; imp 4 ohms; sens 87 dB SPL/W/m; 13" w x 43" h x 13" d $1,790/pr

MSP Series Speakers
Acoustic-suspension speakers with Ribbon-Wire voice coils; Soft-Metal Dome tweeters; baffles electrostatically coated with flocking to reduce high-frequency ripples; tweeters and midranges cooled with ferrofluid; cabinets of extra-heavy-duty high-density multi-layer wood with internal bracing.

MSP 300. Floor-standing speaker with 2 8" long-fiber-pulp woofers, 3" cone/dome midrange, 1" tweeter; European walnut or black-oak veneer, top plate 8-layer hand-finished black lacquer. FR 32-29,000 Hz ± 3 dB; power range 25-150 W; imp 4 ohms; sens 88 dB SPL/W/m; 11.5" w x 42.3" h x 11" d; 60 lb $1,490/pr
MSP 200. Floor-standing speaker with 8" long-fiber-pulp woofer, 3" cone/dome midrange, 1" tweeter; European walnut or black-oak veneer, top plate 8-layer hand-finished black lacquer. FR 37-29,000 Hz ± 3 dB; power range 25-120 W; imp 4 ohms; sens 88 dB SPL/W/m; 11.5" w x 36.6" h x 11" d; 52 lb $1,290/pr
MSP 110. Floor-standing speaker with 8" long-fiber-pulp woofer, 3" cone/dome midrange, 1" tweeter; European walnut or black-oak veneer, top plate 8-layer hand-finished black lacquer. FR 39-29,000 Hz; power range 25-120 W; imp 4 ohms; sens 88 dB SPL/W/m; 11.5" w x 31" h x 11" d; 42 lb $1,090/pr
MSP 70. Bookshelf speaker with 10" woofer, 2.75" midrange, 1" tweeter; black woodgrain vinyl. FR 39-29,000 Hz ± 3 dB; power range 25-100 W; imp 4 ohms; sens 90 dB SPL/W/m; 12.6" w x 22.9" h x 11.5" d; 33 lb $790/pr
MSP 60. Bookshelf speaker with 8" woofer, 2.75" midrange, 1" tweeter; black woodgrain vinyl. FR 41-29,000 Hz ± 3 dB; power range 25-90 W; imp 4 ohms; sens 89 dB SPL/W/m; 11.5" w x 20.1" h x 10.5" d; 28.6 lb $650/pr
MSP 50. Bookshelf speaker with 8" woofer, 1" tweeter; black woodgrain vinyl. FR 45-29,000 Hz ± 3 dB; power range 25-80 W; imp 4 ohms; sens 88 dB SPL/W/m; 10.7" w x 17.4" h x 9.5" d; 22 lb $500/pr
MSP 10. Vented minispeaker with 5.25" polypropylene woofer and 1" tweeter; high-density cabinet in textured black vinyl. FR 60-29,000 Hz ± 4 dB; power range 25-50 W; imp 4 ohms; sens 87 dB SPL/W/m; 5.7" w x 8.9" h x 6.9" d; 6.6 lb $390/pr

Monitor Series Speakers
Bookshelf acoustic-suspension 3-way speakers with low-resonance, high-rigidity diaphragms designed for low coloration. Crossover networks use low-dissipation capacitors designed for improved imaging and texture. Magnat Ribbon-Wire® voice coils used in tweeter for 40% increased winding density and improved transient response. All woofers are cone shaped; all midranges are 4" cones; all tweeters are dome shaped. Black wood-grained vinyl with black metal grilles.
D. 10" woofer with cast-aluminum basket; 4" midrange; 1" soft-metal tweeter. FR 40-29,000 Hz ± 3 dB; power range 10-100 W rms; sens 90 dB SPL/W/m; imp 4-8 ohms. 16.5" w x 24.5" h x 15.75" d; 26.5 lb $500/pr
C. 8" long-throw woofer; 4" midrange; 1" soft-metal tweeter. FR 46-29,000 Hz ± 3 dB; power range 10-90 W rms; sens 90 dB SPL/W/m; imp 4-8 ohms. 14.62" wide x 22.5" high x 13.75" deep; 22 lb $430/pr
B. 8" long-throw woofer; 4" midrange; 1" soft-metal tweeter. FR 54-29,000 Hz ± 3 dB; power range 10-80 W rms; sens 90 dB SPL/W/m; imp 4-8 ohms. 14.12" w x 20.5" h x 14.12" d; 20 lb $370/pr
A. 8" long-throw woofer; 4" midrange; 0.75" Supronyl tweeter. FR 54-20,000 Hz ± 3 dB; power range 10-60 W rms; sens 90 dB SPL/W/m; imp 8 ohms. 14.12" w x 19.36" h x 14.12" d; 17.5 lb $300/pr

MAGNEPAN

Magneplanar Tympani-IVa
Planar-magnetic speaker with reduced-mass midrange driver. Features 5-ft-long, 2.5-microns-thick foil tweeter. 3 panels per side; 71" h x 18" w x 1" d $3,800/pr

Magneplanar MG-IIIa Speaker
Floor-standing full-range bipolar panel speaker with planar-magnetic and ribbon-driver design. Can be biamplified. Drivers are 1 planar-magnetic woofer (620" sq.); 1 planar-magnetic midrange (170" sq.); 1 line-source 5' bipolar ribbon tweeter (14.25" sq.). Imp 4 ohms; off-white cloth, oak frame; 55 lb ea $1,995/pr

Magneplaner MG 2.5/R Speaker
Floor-standing full-range bipolar panel speaker with planar/magnetic woofer and 42" long ribbon tweeter. 2-way design, optional grille fabrics, oak side rails $1,550/pr

Magneplanar MG-IIC Speaker
Floor-standing 2-way speaker with Magneplanar woofer and tweeter. Features oak side rails; brown fabric grille. FR 40-18,000 Hz ± 3 dB; power range 25-200 W rms; imp 5 ohms purely resistive; crossover 400-1,600 kHz at 6 dB/octave; 71" h x 22" w x 2" d; 70 lb $1,225/pr

Magneplanar MG-IC Speaker
Floor-standing 2-way speaker with Magneplanar woofer and tweeter. Features oak side rails; off-white fabric grille. FR 45-18,000 Hz ± 4 dB; crossover 1.6 kHz; sens 82 dB sound-pressure level with 1-watt input measured at 3 ft.; power range 40-200 W rms; imp 5 ohms purely resistive; 60" h x 22" w x 2" d $880/pr

Magneplanar SMGa Speaker
Full-range 2-way speaker with 0.5-mil diaphragm driven by Magneplanar magnetic field. Features oak side rails; brown fabric grille. FR 50-16,000 Hz ± 4 dB; power range 20-100 watts averaged root mean square method; impedance 4 ohms purely resistive; crossover 2.4 kHz; 48.56" h x 24.25" w x 1.75" d; 70 lb $495/pr

PRICES LISTED

are manufacturers' suggested retail prices
(also referred to as *list* prices);
actual selling prices are set by individual dealers.
All prices are subject to change without notice.

MARANTZ

SP 1515 Ported Speaker
Floor-standing speaker with 15″ woofer; 5″ ferrofluid cone midrange; 3″ ferrofluid cone tweeter; sculptured furniture-style cabinet. Max power 165 W; sens 92 dB SPL/W/m; imp 8 ohms; Bartonwood vinyl finish; 18″ w x 32.5″ h x 16.5″ d; 47 lb $400/pr

SP124 Tower Speaker
3-way speaker with 12″ woofer; 12″ passive radiator; 4″ midrange with ferrofluid; 3″ tweeter with ferrofluid. Max power 170 W; sens 91 dB/W/m; imp 8 ohms. Oak vinyl finish; 37.75″ h x 14.75″ w x 13.5″ d; 33.7 lb..... $400/pr

SP104 Tower Speaker
3-way speaker with 10″ woofer; 10″ passive radiator; 4″ midrange with ferrofluid; 3″ tweeter withferrofluid. Max power 135 W; sens 90 dB/ W/m; imp 8 ohms. Oak vinyl finish; 37.75″ h x 13″ w x 11″ d; 30 lb $340/pr
SP103. Same as above without passive radiator $300/pr

SP 1200 Ported Speaker
Floor-standing speaker with 12″ woofer; 4″ ferrofluid cone midrange; 3″ ferrofluid cone tweeter. Maximum power handling 165 watts; sensitivity 90 dB SPL/W/m; nominal impedance 8 ohms. Bartonwood vinyl finish; 15″ w x 29.5″ h x 11.5″ d; 32 lb $300/pr

SP 1000 Ported Speaker
Features 10″ woofer; 4″ ferrofluid cone midrange; 3″ ferrofluid cone tweeter. Max power range 130 W; sens 89 dB SPL/W/m; imp 8 ohms. Bartonwood vinyl finish; 13″ w x 27″ h x 11″ d; 25 lb $240/pr

SP 800 Ported Speaker
Features 8″ woofer; 4″ ferrofluid cone midrange; 2″ ferrofluid cone tweeter. Maximum power 60 W; sens 89 dB SPL/W/m; imp 8 ohms. Bartonwood vinyl finish; 13″ w x 26″ h x 8.5″ d; 15 lb $150/pr

SP208 Ported Speaker
2-way speaker system with 8″ woofer and 2″ tweeter. Max power 50 W; sens 90 dB/ W/m; imp 8 ohms. Oak vinyl finish; 18.75″ h x 10.63″ w x 8.38″ d; 10.5 lb..... $120/pr

MARTIN-LOGAN

The Monolith Electrostatic Speaker
Floor-standing curvilinear electrostatic panel speaker mouned atop tuned subwoofer box. Designed for wide dispersion without the use of delay lines or lenses. Constant voltage crossover provides phase coherency. Features 2′ x 4′ electrostatic cell for 100-24,000 Hz and 12″ polypropylene-cone subwoofer with 2″ voice coil that is down 3 dB at 16 Hz. FR 28-24,000 Hz ± 2 dB; power range 30-500 W; sens 90 dB SPL/W/m; impedance 8 ohms. Available in variety of finishes. Measures 25″ wide x 75″ high x 13.5″ deep; 165 lb each $4,850/pr

The Sequel Electrostatic Speaker
Floor-standing electrostatic/subwoofer system. Features visually transparent electrostatic transducer that operates from 200-24,000 Hz; 30° seamless horizontal disperson in vertical line-source format; 1′ x 4′ electrostatic cell; super-low-mass 10″ subwoofer in tuned chamber with matrix voice coil to create linear field in large excursion modes. FR 26-24,000 Hz ± 3 dB; power range 30-300 W; sensitivity 89 dB sound-pressure level with 1-watt input measured at 1 meter; imp 6 ohms. Oak and black finish. 14.5″ w x 74″ h x 13.5″ d; 110 lb ea $2,750/pr

The CLS Electrostatic Speaker
Floor-standing curved electrostatic speaker. Features wide-dispersion format for full-range reproduction; 2′ x 4′ electrostatic cell to reproduce all frequencies from 50-22,000 Hz; 30° seamless horizontal dispersion; 4′ line-source vertical; arc-free diaphragm; see-through appearance. FR 50-22,000 Hz ± 2 dB; power range 20-150 W; sensitivity 85 dB SPL/W/m; impedance 6 ohms. Available in variety of finishes. 26″ w x 48″ h x 2″ d; 50 lb $2,490/pr

McINTOSH

XRT-22 Speaker System
2-piece speaker consisting of bass cabinet containing 2 12″ woofers and 8″ midrange drivers, and tweeter column containing 23 1″ tweeters. Bass cabinet: 40.75″ h x 25.75″ w x 12.75″ d; tweeter column: 79.5″ h x 10.5″ w x 1.63″ d; oak finish $4,000/system
Walnut finish $4,250/system

XRT18 Speaker System
2-piece speaker consisting of bass cabinet containing 12″ woofer and 6″ midrange and high-frequency column frame containing sixteen 1″ dome tweeters. Features 3-ampere fast acting fuse for woofer and midrange and 1.25-ampere fuse for tweeters. Cabinet constructed of 48-pound density fiber board with walnut veneer exteriors. Sens 86 dB SPL/W/m; max power 150 W continuous program power, 500 W peak; min power 30 W; imp 8 ohms; crossover frequencies 350 and 1,500 Hz. Bass cabinet 27.22″ h x 17.5″ w x 11.75″ d, tweeter column 57.31″ h x 10.5″ w x 1.63″ d; total weight 92 lb $2,250/system

XD 717 3-Way Speaker
Floor-standing speaker with 12″ woofer, 6.5″ midrange, and 1″ dome tweeter. Sens 87 dB SPL/ W/m; recommended power handling 30-100 W; imp 8 ohms; crossover frequencies 350 and 1,000 Hz. Cabinet constructed of 0.75″ high-density particle board with internal bracing and airtight assembly. Walnut veneer protected by oil-like multi-coat hand-rubbed lacquer finish. 37.75″ h x 17.5″ w x 11.88″ d; 66 lb $1,598/pr

XD 715 3-Way Speaker
Floor-standing speaker with 10″ woofer, 5″ midrange, and 1″ dome tweeter. Sens 87 dB SPL/W/m; max power 100 W program noise; min power 30 W; imp 8 ohms; crossover frequencies 350 and 1,000 Hz. Cabinet constructed of 0.75″ high-density particle board with internal bracing and air-tight assembly covered by walnut veneer. 30″ h x 14.75″ w x 10.06″ d; 43 lb $1,198/pr

Martin-Logan Monolith

XL1 2-Way Compact Speaker
Bookshelf speaker with 6″ woofer, 1″ dome tweeter, and 1,000 Hz crossover network. Features 0.6-ampere fast-acting fuse. Max power 80 W program noise, 200 W peak; min power 30 W; imp 8 ohms; sens 85 dB SPL/W/m. Cabinet constructed of 0.75″ high-density particle board with internal bracing and air-tight assembly. $525/pr
XL 1W Subwoofer. Dual-voice-coil subwoofer designed to complement and extend performance of McIntosh XL 1 speaker. Features 12″ woofer; two 1.5-ampere fast-acting fuses; walnut veneer cabinet protected by an oil-like multi-coat hand-rubbed lacquer finish. Sens 85 dB SPL/W/m; max power 100 W program noise, 250 W peak; min power 30 W; crossover frequency 90 Hz. 32.22″ h x 17.5″ w x 11.75″ d ..... $549 ea

MERIDIAN by MADRIGAL

M100 3-Way Powered Speaker
Inter-Active speaker with 4 power amps (3 70 W/ ch, 1 35 W/ch) driving 2 5″ woofers, 2 5″ midranges, 1 2″ dome tweeter. 0.75″ birch cabinet of low resonance with rear-loaded passive radiator. 39″ h x 16″ w x 18″ d; 70 lb ea; walnut $6,300/pr
Rosewood finish $6,775/pr

M20 2-Way Powered Speaker
Ported speaker with two 5″ woofers, 2″ tweeter, power supply, 2 power amps in low-resonance cabinet; 0.75″ A-quality birch plywood cabinet; all-metal stand with resonance damping available. FR 38-20,000 Hz ± 3 dB; max output 105 dB; 20″ h x 15″ d x 7″ w. Walnut or teak finish; with amplifiers $2,300/pr
Rosewood finish; with amps $2,600/pr

M30 2-Way Powered Speaker
Compact Inter-Active speaker with 5″ woofer, 1.25″ tweeter; time-delay correction; power supply; power amps. FR 38-20,000 Hz ± 3 dB; max output 100 dB free-standing, up to 103 dB on shelf; 14.5″ h x 12″ d x 7″ w. Walnut, teak, or black ash finish; with amps $1,625/pr

MIRAGE ACOUSTICS

All speakers are ported; nominal imp 6 ohms (min 4); black knit grilles; dome tweeters with crossover point of 2,200 Hz.

M1 Floor-Standing Speaker
2 8″ polypropylene woofers with 38-oz magnets crossing over to 2 4″ cone midranges (1 front, 1 back) at 300 Hz; 2 0.75″ soft dome tweeters (1 front, 1 back); black lacquer. FR 20-22,000 Hz ± 3 dB; min power 60 W; max power 400 W; sens 86 dB SPL/W/m; imp 6 ohms; 120 lbs; 19.5″ w x 60″ h x 9″ d $3,000/pr

460 2-Way Speaker
8″ woofer; 1″ dome tweeter; black vinyl. Frequency response 40-20,000 Hz ± 3 dB; sensitivity 88 dB SPL/W/m; power range 15-120 W; 25″ x 10″ x 11″ $400/pr

360 2-Way Speaker
8″ woofer; 0.75 tweeter; black vinyl. FR 50-20,000 Hz ± 3 dB; sensitivity 88 dB output with input of 1 watt measured at 1 meter; power range 15-100 W; 20″ x 10″ x 9″; 20 lb each $300/pr

210 2-Way Speaker
6.5″ woofer; 0.75″ tweeter; black vinyl. FR 60-20,000 Hz ± 3 dB; sensitivity 88 dB output with

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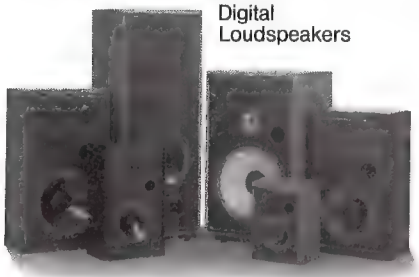

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CIRCLE NO. 62 ON READER SERVICE CARD

input of 1 watt measured at 1 meter; power range 15-70 W; 15" x 9" x 9"; 15 lb each.... $230/pr

MISSION ELECTRONICS

Argonaut Floor-Standing Speaker
2-way speaker with time-aligned drivers and transverse-folded cabinet. Optimum placement near rear wall; 2 reinforced homopolymer 8" cone woofers; 1" super-elipse cavity-loaded tweeter; spikes. FR 35-20,000 Hz ± 3 dB; power range 50-200 W; sens 94.5 dB SPL/W/m; imp 4 ohms; walnut, gray, black; 50 lbs; 11" w x 38" h x 12" d $1,499/pr

Freedom 2-Way Speaker
Time-aligned drivers; integral locking stand; transverse-folded cabinet with visco-elastic damping; optimum placement near rear wall; 8" reinforced-homopolymer cone woofer; 1" super-ellipse cavity-loaded tweeter. FR 40-20,000 Hz ± 3 dB; min power 20 W; max power 150 W; sens 92 dB SPL/W/m; imp 8 ohms; black, gray, walnut; 28 lb; 11" w x 24.5" h w 12" d $899/pr

Renaissance 2-Way Speaker
Integral locking stands; transverse-folded cabinet with visco-elastically dampened walls; 8" polypropylene cone woofer; 0.75" polymer-dome tweeter with ferrofluid; crossover frequency 2,400 Hz. FR 40-20,000 Hz ± 3 dB; nominal imp 8 ohms; power range 20-125 W/ch; sens 90 dB SPL/W/m; 10" h w 21.6" w x 11" d; 23 lbs/ea; black/walnut $649

707 Bass-Reflex Speaker
2-way speaker with limestone/polypropylene front baffle board; steel-reinforced 8" paper woofer; 0.75" ferrofluid dome tweeter. FR 50-20,000 Hz ± 3 dB; min power 20 W, max power 100 W; sens 92 dB SPL/W/m; imp 8 ohms; black and walnut; 17.7 lb; 10" w x 19" h x 11" d $499/pr

700 Leading Edge Acoustic-Suspension Speaker
7" high-rigidity plastiflex cone woofer and 0.75" ferrofluid-cooled dome tweeter; injection-molded polypropylene and limestone baffle board. FR 50-20,000 Hz ± 3 dB; min power 15 W rms; max power 100 W rms; sens 90 dB SPL/W/m; imp 6 ohms; black, walnut $349/pr

70 II Acoustic-Suspension Speaker
Constraint-layer-damped cabinet to reduce resonances; 7" plastiflex cone woofer; 0.75" ferrofluid-cooled dome tweeter; black. FR 60-20,000 Hz ± 3 dB; power range 15-75 W rms; sens 90 dB SPL/W/m; imp 8 ohms; 10.5 lb; 8.5" w x 15.2" h x 8.5" d..... $249/pr

MOREL ACOUSTICS

Duet 2-Way Double-Magnet Speaker
New MDT-33 tweeter, 28 mm soft-dome design with double-magnet structure, Hexatech technique winding (aluminum wire, wound hexagonally) and ferrofluid cooled. MW-164 6" double-magnet woofer also using the Hexatech voice coil. FR 40-22,000 Hz ± 2 dB; power handling 150 W rms; 8" w x 15" h x 12" d; 20 lb $950/pr

MLP-403-II 3-Way Speaker
Ported floor-standing speaker with Variovent. 9" free-edge paper-cone woofer; 3" dome midrange; 1.1" dome tweeter. FR 38-25,000 Hz ± 3 dB; min power 10 W, max power 125 W rms; sens 88 dB SPL/W/m; imp 4-8 ohms; finished in walnut, teak, or black; 21" h x 12" w x 10" d; 26 lb$750/pr

MLP-206 2-Way Speaker
Acoustic-suspension bookshelf speaker with cabinet proportioned similarly to the smaller MLP-202 II (below) with 33-litre volume. Features 9" coated-paper cone woofer; 1.1" soft-dome tweeter. FR 38-25,000 Hz ± 3 dB; min power 20 W rms; max power 150 W rms; sensitivity 89 dB sound-pressure level with input of 1 watt measured at 1 meter; impedance 8 ohms. Walnut, teak, or black finish. 12" wide x 20" high x 12" deep; 25 lb ea $595/pr

MLP-202 II Bookshelf Speaker
Acoustic-suspension linear-phase speaker. FR 60-28,000 Hz ± 3 dB; min power 10 W, max power 150 W rms; sens 89 dB SPL/W/m; imp 4-6 ohms; in walnut, teak, or black; 8" w x 13" h x 10" d $445/pr

CR-7 2-Way Speaker
Acoustic-suspension bookshelf speaker with asymmetrical cabinet design to eliminate internal standing waves and improve dispersion and flatness of frequency response. Features 6" treated-paper cone woofer with metal grille; 1" soft-dome tweeter with metal grille. Available in mirrored pairs. Black finish. FR 70-25,000 Hz ± 3 dB; min power 20 W rms; max power 200 W rms; sens 90 dB SPL/W/m; imp 4-8 ohms. 11" w x 7.5" h x 4.75" x 7" d; 10 lb ea $395/pr

MLP-201 2-Way Speaker
Acoustic-suspension bookshelf speaker with 9" free-edge paper-cone woofer, 1.1" dome tweeter. FR 48-20,000 Hz ± 3 dB; power range 10-100 W

MTX by MITEK

Pro 215 Floor-Standing Speaker
Bass-reflex speaker with computer-aided Thiele/Small-aligned cabinet. Features 2 15" cone woofers; 2 5" PL-5 cone midranges; 3" horn-loaded tweeter. FR 50-21,000 Hz ± 3 dB; power range 5-400 W rms; sens 102.2 dB SPL/W/m; imp 4 ohms; heavy-duty aviation carpet; 125 lb; 18.5" w x 46.5" h x 16" d..... $1,400/pr

Pro 115 Floor-Standing Speaker
Bass-reflex speaker with computer-aided Thiele/Small-aligned cabinet. Features 15" cone woofer, 2 5" PL-5 cone midranges; 3" horn-loaded tweeter. FR 60-21,000 Hz ± 3 dB; power range 5-200 W rms; sens 99.6 dB SPL/W/m; imp 4 ohms; heavy-duty aviation carpet; 77 lb; 21.25" w x 29.75" h x 16" d..... $1,200/pr

Pro 210 Floor-Standing Speaker
Bass-reflex speaker with computer-aided Thiele/Small aligned cabinet. Features 2 10" cone woofers; 2 5" PL-5 cone midranges; 3" horn-loaded tweeter. FR 70-21,000 Hz ± 3 dB; power range 5-300 W rms; sens 101.6 dB SPL/W/m; imp 4 ohms; heavy-duty aviation carpet; 67 lb; 23.5" w x 18.25" h x 12.5" d $880/pr

Pro 110 Bass-Reflex Monitor Speaker
Thiele/Small alignment; 10" cone woofer; 4.5" cone midrange; 1" horn-loaded dome tweeter; covered with heavy-duty aviation carpet. FR 75-21,000 Hz; power range 5-100 W rms; sens 94.8 dB SPL/W/m; imp 4/8 ohms; 14" w x 18.5" h x 12.75" d; 42 lb $680/pr

MUSIC AND SOUND IMPORTS

Mas 925 III 3-Way Speaker
Floor-standing speaker with 10" polypropylene-cone passive radiator; 8" poly-cone woofer; 1.75" textile-dome tweeter; 0.75" textile-dome tweeter. FR 30-18,000 Hz ± 3 dB; power range 25-150 W; sens 91 dB SPL/W/m; imp 8 ohms; natural oak, dark oak veneer finishes; 39 lb; 23.5" w x 11.88" h x 11.88" d $699/pr

For explanations of abbreviations, specifications, and technical terms, consult the glossary on page 221.

NAD

300A 3-Way Speaker
Internally braced acoustic-suspension tower speaker with 10U long-throw woofer with butyl surround, 1.5U midrange, 1U soft-dome tweeter. Large magnets for powerful bass and no overhang. Power range 10-150 W/ch; nominal imp 4 ohms; crossovers at 900 and 3,000 Hz; resonance 45 Hz; sens 90 dB SPL/W/m. 10.75" w x 11.5" d x 31.5" h; 57 lb $750/pr
200A. Similar to above except no midrange driver and 8" woofer. Crossover at 1,700. Power range 10-120 W/ch. 39 lb $500/pr

NADY SYSTEMS

WTS-1 Speaker
Portable self-powered speaker with 15-W cordless amplifier. Features 2-channel FM receiver; microphone; miniature body pack stereo transmitter. Speaker houses 6.5" woofer; 1.5" cone tweeter. 8.5" w x 12.75" h x 7.31" d..... $200/sytem

NEC

RS-100 3-Way Speaker
Floor-standing speaker with twin-transmission-path low-frequency (varibly damped) enclosure. Features Poly-Arc adjustable high-frequency array; 10" polypropylene passive radiator; 2 8" polypropylene woofers; 1.38" cambric-dome midrange; 1" elliptical-dome tweeter. FR 28-18,500 Hz ± 3 dB; power range 25-200 W; sens 90 dB SPL/W/m; imp 4 ohms. 14" w x 42" h x 16" d; 103 lb $1,500/pr

RS-500 3-Way Speaker
Floor-standing acoustic-suspension magnetically shielded speaker with mirror-image dsign. Features 12" cone woofer; 5" polyvinyl acetate-cone midrange; 1" soft-dome tweeter. FR 40-20,000 Hz ± 3 dB; power range 15-130 W rms; sens 92 dB SPL/W/m; imp 8 ohms. Teton oak finish. 14" w x 27" h x 10.75" d $499/pr

SW0-300BU Subwoofer
Magnetically shielded bass-reflex subwoofer with 12" cone woofer, built-in 60-W amplifier, and 3 selectable turnover frequencies (70, 100, 150 Hz). FR 20-150 Hz, 20-100 Hz, or 20-70 Hz depending on selected turnover frequency. 20.69" w x 17.94" h x 15.34" d; 32 lb ..... $299 ea

AVS-300E 2-Way Surround-Sound Speaker
Compact acoustic-suspension speaker designed for rear-channel reproduction of surround sound. Features 5.5" cone woofer; 1" polymer-dome tweeter. Power range 5-60 W; nominal imp 8 ohms; sens 89 dB SPL/W/m; FR 60-20,000 Hz. 6.5" w x 9.75" h x 5.62" d..... $199/pr

NIKKO AUDIO

LS-100 3-Way Speaker
Floor-standing acoustic-suspension speaker. Features 12" cone woofer with 20-oz magnet; 3" cone midrange; 1" cone tweeter; auto protection unit. Sens 86 dB SPL/W/m. Glossy black oak enclosure $250/pr

NOVAK LOUDSPEAKER

Model 2 Vented 2-Way Speaker
6.5 plastic cone woofer vertically aligned with ferrofluid-damped dome tweeter; 4th-order Butterworth woofer loading; 1st-order crossover with mylar capacitors; min-diffraction baffle; nonallergenic antistatic black foam grille; external fuses.

FR 44-24,000 Hz ± 3 dB; sens 91 dB SPL/W/m; power range 5-60 W; 11.25 w x 20.4 h x 10.9 d; shipping weight 26 lb.
Black formica $330/pr
Walnut or oak $300/pr

OHM ACOUSTICS

Walsh 5 Vented Speaker
Features Walsh driver; 3 controls for lows, perspective (midrange), and highs, each with 3 positions; gold-plated 5-way binding posts; gold internal connectors; Monster Cable internal wiring; veneered top edge of cabinet. FR 25-25,000 Hz ± 4 dB; min power 50 W rms; max power 500 W rms; imp 4 ohms; 1,000-W headroom rating for CD's. Available in walnut, oak and rosewood finishes or teak/white/black lacquer. 95 lbs; 17.5" x 17.5" at bottom tapering to 15" x 15" at top; 43" tall. Limited edition run of only 500 sets worldwide, each signed and numbered $4,800/pr

4XO Floor-Standing Speaker
Bass-reflex speaker features inverted conical surface driver; gold-plated 5-way binding posts; gold internal connectors; lead-lined cabinet; Monster Cable internal wiring; casters; tufflex transmission block; ferrofluid cooled; protection circuits; acoustical attenuator for controlled dispersion; sonically transparent circular metal grille. Standard finish walnut and oak, available in Scandinavian rosewood, black, or white lacquer. FR 32-23,000 Hz ± 4 dB; sens 91 dB SPL/m/2.83 V; power range 30-500 W; peak handling 700 W; imp 8 ohms. 40" h x 15.5" x 15.5" at base tapering to 11.75" x 11.75" at top; 63 lb .. $2,000/pr

3XO Floor-Standing Speaker
Bass-reflex speaker features inverted conical surface driver; press-connector inputs accept banana plugs or up to 12 gauge wire; lead-lined cabinet; casters; tufflex transmission block; ferrofluid cooled; protection circuits; acoustical attenuator; circular metal grille. Standard finish walnut and oak, available in Scandinavian rosewood, black, or white lacquer. FR 36-22,000 Hz ± 4 dB; sens 90.6 dB SPL/m/2.83 V; power range 18-200 W; peak handling 300 W; imp 8 ohms. 36" h x 13.5" x 13.5" at base tapering to 10.5" x 10.5" at top; 43 lb $1,500/pr

2XO Floor-Standing Speaker
Bass-reflex speaker features inverted conical surface driver; press-connector inputs accept banana plugs or up to 12 gauge wire; sub-bass activator; tufflex transmission block; ferrofluid cooled; protection circuits; acoustical attenuator; circular metal grille. Standard finish walnut and oak, available in Scandinavian rosewood, black, or white lacquer. FR 44-21,000 Hz ± 4 dB; sens 90.2 dB SPL/m/2.83 V; power range 15-120 W; peak handling 200 W; imp 8 ohms. 32.5" h x 11.5" x 11.5" at base tapering to 9.25" x 9.25" at top; 29 lb $1,000/pr

Ohm C_3 Speaker
Features 10" polypropylene driver with 38-oz ferrite magnet; 1.5" liquid-cooled voice coil; pentavented liquid-cooled 1" soft dome tweeter; 10-oz ferrite magnet; 2,400 Hz/14,000 Hz Sub-Bass Activator; vented (quasi-third order Butterworth filter); press connectors; 0.62" flakeboard stock-oiled walnut finish, oak on special order. FR 37-21,000 Hz ± 4 dB; imp 4 ohms; 26.36" h x 15" w x 11.75" d $750/pr

1XO Floor-Standing Speaker
Bass-reflex speaker features inverted conical surface driver; press-connector inputs accept banana plugs or up to 12-gauge wire; tufflex transmission block; ferrofluid cooled; protection circuits; acoustical attenuator; circular metal grille. Walnut finish. FR 48-20,000 Hz ± 4 dB; sens 90 dB SPL/m/2.83 V; power range 10-90 W; peak handling 150 W; impedance 8 ohms. 32.5" high x 11.5" wide x 11.5" deep at base tapering to 9.25" x 9.25" at top; 24 lb $700/pr

Model L2 Speaker
Features 8" woofer; 2" tweeter; 2" supertweeter; tweeter level control; oiled-walnut finish. FR 42-20,000 Hz ± 4 dB; crossovers 1.7 and 10 kHz; power range 8-100 W; sens 100-dB SPL at 3 ft; 20" h x 12" w x 9.75" d $595/pr

Model E_2 Speaker
2-way vented speaker with 8" woofer with 5-oz ferrite magnet and 1" liquid-cooled voice coil. Features liquid-cooled Penta-Vented tweeter; 2,700 Hz Sub-Bass Activator; vented enclosure (quasi-third order Butterworth filter); press connectors; 0.62" flakeboard stock, oiled-walnut finish; 21.5" x 11.5" x 7.25" deep; imp nominal/minimum 8/4 ohms; FR 48-17,000 Hz ± 4 dB; efficiency 0.73%; recommended power 7-75 W rms on music$395/pr

ONKYO

S-70 4-Way Speaker
Bass-reflex speaker with 12" polypropylene-cone woofer with high-power voice coil, 5" PVA-treated ferrofluid-cooled midrange, 1" polycarbonate-dome ferrofluid-cooled tweeter, and 0.5" polycarbonate-dome ferrofluid-cooled supertweeter. Features self-resetting auto overload protection. FR 55-20,000 Hz ± 3 dB; power range 10-150 W rms; sens 93 dB SPL/W/m; imp 8 ohms. Natural-oak-veneer finish. 16" w x 40.75" h x 10.25" d; 49 lb $600/pr

S-58 3-Way Speaker
Floor-standing bass-reflex speaker with self-resetting overload protection. Features 15" polypropylene-cone woofer; 5" PVA-treated ferrofluid-cooled cone midrange; 1" polycarbonate-dome ferrofluid-cooled tweeter. FR 65-20,000 Hz ± 3 dB; power range 10-100 W rms; sens 92 dB SPL/W/m; imp 8 ohms. Oak vinyl finish. 17.5" w x 33.12" h x 12.88" d; 48 lb $400/pr

S-38 3-Way Speaker
Floor-standing bass-reflex speaker with self-resetting overload protection. Features polypropylene-cone woofer; PVA-treated ferrofluid-cooled cone midrange; 1" polycarbonate ferrofluid-cooled dome tweeter. FR 65-20,000 Hz ± 3 dB; power range 10-100 W rms; sens 91 dB SPL/W/m; imp 8 ohms. Oak vinyl finish. 14.5" w x 33" h x 11.5" d; 37 lb $300/pr

HS-15 2-Way Speaker
Compact speaker with high-strength mesh grille, 6.25" cone woofer, 2 2.75" cone tweeters. Dark gray finish; mirror-image pairs; FR 55-20,000 Hz; max power 45 W; imp 8 ohms. 8.12" w x 13.87" h x 9.62" d; 10 lb $250/pr

PARASOUND

AWs280 All-Weather Speaker
Ported bookshelf speaker designed to function outdoors year-round. 6" polypropylene cone woofer, labyrinth bass loading, 1.5" poly cone tweeter. High-density particle-board beige enclosure with molded outer shell and mounting hooks. FR 65-20,000 Hz ± 4 dB; power range 10-60 W; sens 88 dB SPL/W/m; imp 8 ohms. 10" w x 14.5" h x 9.5" d; 11 lb $245/pr

CPI-440bi Compact Perfect Image Speaker
2-way speaker with 4" high-compliance carbon-fiber-reinforced polypropylene cone woofer and 1" ferrofluid-damped soft-dome tweeter with acoustic blanket. Nondiffraction cabinet; 1st-order network with polypropylene capacitor; 4th-order vented design. Simulated black oak finish. FR 70-22,000 Hz ± 4 dB; THD at 92 dB −1%; imp 4 ohms; sens 88 dB SPL/W/m; sustained power handling 55 W rms; max power 150 W rms; time aligned within 0.05 μs. 9" h x 5.88" w x 6.5" d $235/pr

CMs330 Compact Monitor Speaker
Bookshelf speaker in die-cast aluminum enclosure. High-compliance polypropylene 4" cone woofer, 1" soft-dome tweeter with phasing plug and ferrofluid damping. 12-dB/octave crossover includes separate choke for woofer. With mounting brackets. FR 60-22,000 Hz ± 4 dB; power range 10-80 W; sens 89 dB SPL/W/m; imp 4 ohms. Black aluminum. 4.62" w x 7.12" h x 4.5" d; 6 lb $215/pr

CRs220 Compact Bookshelf Speaker
Remote speaker with birch finish. 6-dB/octave crossover with separate choke for woofer. Mounting brackets included. 4" woofer; 1.5" tweeter. FR 80-20,000 Hz ± 4 dB; power range 10-60 W; sens 92 dB SPL/W/m; imp 4 ohms; 5" w x 8.25" h x 4.5" d; 6 lb $110/pr

Subwoofer

BPI-A60 Bass Perfect Image Subwoofer
Subwoofer with built-in 60-W amp. 6th-order bass alignment with amp equalized for driver. 12" driver with 2" voice coil and 5-lb magnet; high- or low-Z inputs; auto turn-on relay; adjustable crossover gain; 1"-thick nonresonant enclosure. Simulated rosewood finish. FR 20-180 Hz ± 3 dB; THD at 100 dB <0.5%; input sens line 250 mV-1.5 V, low-Z 1 V; input imp line 50 kilohms, speaker 22 ohms; power output 60 W rms from 20-180 Hz with −0.05% THD; low-pass crossover adjustable from 63-180 Hz; 12-dB/octave slope and infrasonic filter. 27.5" h x 15.75" w x 13.75" D ..... $525 ea

PENTAGRAM

P-10A Floor-Standing 3-Way Speaker
Pentagonal pyramid speaker with external or internal crossover and no resistors. 15" damped-cone passive rad; 10" cone woofer; 3" dome midrange; 2" ribbon tweeter; discteck wiring; polypropylene capacitors; 10-gauge aircore coil. FR 24-20,000 Hz ± 2 dB; min power 35 W; max power 250 W; sens 90 dB SPL/W/m; imp 7.3 ohms. 26.5" w x 33.25" h x 24.5" d; 92 lbs; oak or walnut finishes $2,250/pr

P-8A Floor-Standing 3-Way Speaker
Damped pentagonal pyramid speaker with no resistors. Features 12" damped-cone passive rad; 8" polypropylene cone woofer; 3" dome midrange; 2" ribbon tweeter; discteck wiring; polypropylene capacitors; series circuit; quasi 12-dB/crossover. FR 34-20,000 Hz ± 2 dB; min power 25 W; max power 150 W; sens 90 dB SPL/W/m; imp 7.3 ohms. 18.5" w x 23.5" h x 18.5" d; 54 lbs. Oak or walnut finishes $1,100/pr

P-6 2-Way Speaker
Speaker with specially shaped internal bracing system. Features 6.5" polypropylene cone woofer; 1" dome tweeter. FR 45-22,000 Hz ± 2.5 dB; power handling 60 W; sens 91 dB SPL/W/m; walnut or oak veneer; 14.5" w x 18" h x 8.25" d; 22 lbs $495/pr

WP-1 Wall-Mounting 2-Way Speaker
Transmission-line speaker with discteck wiring and polypropylene capacitors. Features 6.5" polypropylene cone woofer; 1" dome tweeter. FR 40-20,000 Hz ± 2.5 dB; min power 15 W; max power 60 W; sens 91 dB SPL/W/m; imp 7.6 ohms. 13.5" W x 36" h x 3.44" d; 23 lbs. Black grille face $495/pr

WP-2 Wall-Mounting 2-Way Speaker
Box speaker with acoustic-suspension enclosure; 6.5″ polypropylene woofer; 1″ dome tweeter. FR 60-20,000 Hz ± 2.5 dB; min power 15 W; max power 60 W; sens 91 dB SPL/W/m; imp 7.6 ohms. 13.5″ W x 7″ h x 3.44″ d; 12 lbs. Black grille face $275/pr

PHASE TECHNOLOGY

Phase Coherent Series

PC-1000 4-Way Speaker
Floor-standing phase-coherent passive-radiator speaker. Features met-polypropylene bypass capacitors; 10″ solid-piston RPF radiator; 8″ solid-piston RPF woofer; 5.25″ solid-piston RPF midrange; 1″ soft-dome tweeter; accepts banana plugs. FR 30-20,000 Hz ± 3 dB; power range 25 W; sens 250 dB SPL/W/m; imp 8 ohms; walnut and dark oak; 15.5″ w x 38.25″ h x 8.5″ d; 70 lb $1,300/pr

PC-800Ho 3-Way Speaker
Floor-standing acoustic-suspension phase-coherent speaker with met-polypropylene bypass capacitors, 10″ flat solid-piston RPF woofer, 5.25″ flat solid-piston RPF midrange, 1″ soft-dome tweeter. Features removable min-diffraction grille; genuine wood veneer; speaker protection. Accepts banana plugs. FR 30-20,000 Hz ± 3 dB; min power 20 W rms; max power 150 W rms; sens 91 dB SPL/W/m; imp 4 ohms. Walnut or dark-oak veneer finishes. 14.5″ w x 36.25″ h x 8.5″ d; 57 lb $950/pr

PC-600Ho 2-Way Speaker
Floor-standing acoustic-suspension phase-coherent speaker with met-polypropylene bypass capacitors, 8″ solid-piston RPF woofer, 1″ soft-dome tweeter. Features removable min-diffraction grille; genuine wood veneer; speaker protection. Accepts banana plugs. FR 35-20,000 Hz ± 3 dB; min power 20 W rms; max power 125 W rms; sens 91 dB SPL/W/m; imp 4 ohms. Walnut or dark-oak veneer finishes. 12″ w x 31.25″ h x 8″ d; 42 lb $620/pr

PC-60 2-Way Speaker
Bookshelf phase-coherent acoustic-suspension speaker with met-polypropylene bypass capacitors; accepts banana plugs; solid hardwood and veneers; removable min-diffraction grille; speaker protection. 6″ solid-piston RPF woofer; 1″ soft-dome tweeter. FR 55-20,000 Hz ± 3 dB; power range 15-100 W; sens 87 dB SPL/W/m; imp 4 ohms; walnut, stained-oak, light-oak finishes; 8″ w x 13.5″ h x 8″ d; 15 lb $460/pr

PC-40 2-Way Speaker
Bookshelf phase-coherent acoustic-suspension speaker with met-polypropylene bypass capacitors; accepts banana plugs; genuine wood veneer; removable min-diffraction grille; speaker protection. 5.25″ solid-piston RPF woofer; 1″ soft-dome tweeter. FR 70-20,000 Hz ± 3 dB; power range 15-80 W; sensitivity 89 dB sound-pressure level with an input of 1 watt measured at 1 meter; imp 4 ohms; walnut, stained-oak, light-oak finish; 6.5″ w x 9.75″ h x 5.25″ d; 10 lb $360/pr

The listings are based on data provided by the manufacturers. For more product information, contact an authorized dealer or the manufacturer directly. Manufacturers' addresses and phone numbers are listed in the directory beginning on page 226.

Euro Series

745 ES 3-Way Speaker
Floor-standing acoustic-suspension speaker with angled projected front baffle for minimum diffraction. Features 8″ cone woofer; 6.5″ cone midrange; 1″ soft-dome tweeter; removable min-diffraction grille; rubber surround on woofer and midrange. Accepts banana plugs. FR 35-20,000 Hz ± 3 dB; min power 15 W rms; max power 120 W rms; sens 93 dB SPL/W/m; imp 4 ohms. 10″ w x 35.25″ h x 11.75″ d; 42 lb $550/pr

535 ES 3-Way Speaker
Floor-standing acoustic-suspension speaker with angled projected front baffle for minimum diffraction. Features 6.5″ cone woofer; 6.5″ cone midrange; 1″ soft-dome tweeter; removable min-diffraction grille; rubber surround on woofer and midrange. Accepts banana plugs. FR 40-20,000 Hz ± 3 dB; min power 15 W rms; max power 100 W rms; sens 92 dB SPL/W/m; imp 4 ohms. Walnut or black-ash vinyl finish. 8.5″ w x 33.12″ h x 10.25″ d; 32 lb $450/pr

325 ES 2-Way Speaker
Bookshelf acoustic-suspension speaker with angled projected front baffle for minimum diffraction. Features 6.5″ cone woofer; 0.5″ dome tweeter; removable min-diffraction grille; rubber surround on woofer. Accepts banana plugs. FR 55-20,000 Hz ± 3 dB; min power 15 W rms; max power 80 W rms; sens 92 dB SPL/W/m; imp 4 ohms. Walnut or black-ash vinyl finish. 8″ w x 17.25″ h x 8.75″ d; 17 lb $240/pr

Subwoofer/Satellite Systems

PC-60/50 Subwoofer/Satellite Set
3-piece acoustic-suspension subwoofer system with down-firing floor-loaded woofer and 2-way compact phase-coherent satellites. Features met-polypropylene bypass capacitors; feet extenders for heavy carpet; tweeter level control; accepts banana plugs; solid hardwood and veneers; removable minimum-diffraction grille; speaker protection. 10″ solid-piston subwoofer, 6″ solid-piston midrange, 1″ soft-dome tweeter. FR 30-20,000 Hz ± 3 dB; power range 25-200 W; sens 87 dB SPL/W/m; impedance 8 ohms; walnut, stained oak, light oak finish; satellites 8″ wide x 13.5″ high x 8″ deep; subwoofer 13″ wide x 14″ high x 15″ deep; 60 lb $790/set

PC-40/30 Subwoofer/Satellite Set
Ultra-compact 3-piece acoustic-suspension subwoofer system with down-firing floor-loaded subwoofer and 2-way phase-coherant satellites. Features met-polypropylene bypass capacitors; feet extenders for heavy carpet; accepts banana plugs; genuine wood veneer; removable minimum-diffraction grille; speaker protection. 8″ solid-piston subwoofer, 5 .25″ solid-piston midrange, 1″ soft-dome tweeter. FR 35-20,000 Hz ± 3 dB; power range 15-150 W; sens 89 dB sound-pressure level with input of 1 watt measured at 1 meter; imp 4 ohms; walnut, stained oak, light oak finish; satellites 6.5″ w x 9.75″ h x 5.25″ d; subwoofer 11″ w x 12″ x 13″ d; 45 lb $610/set

Subwoofers

PC-50 Subwoofer
Down-firing floor-loaded acoustic-supension subwoofer with met-polypropylene bypass capacitors; internal passive crossover for use with satellite speakers; feet extenders for heavy carpeting; genuine wood veneer. 10″ solid-piston RPF™ woofer. FR 30-150 Hz ± 3 dB; power range 25-200 W; sens 87 dB sound-pressure level with input of 1 watt measured at 1 meter; imp 8 ohms; walnut, light oak, stained oak finish; 13″ w x 14″ h x 15″ d; 33 lb ..... $330 ea

PC-30 Subwoofer
Down-firing floor-loaded acoustic-suspension subwoofer with met-polyproplene bypass capacitors, internal passive crossover for use with satellite system; feet extenders for heavy carpeting; genuine wood veneer. 8″ solid-piston RPF woofer. FR 35-150 Hz ± 3 dB; power range 15-150 W; sens 89 dB SPL/W/m; imp 4 ohms; walnut, stained oak, light oak finish; 11″ w x 12″ h x 13″ d; 25 lb ..... $250 ea

PINNACLE

PN15 4-Way Speaker
Floor-standing 4th-order-vented speaker with LCR-type modified quasi 2nd-order phase-coherent network. Features 10″ polypropylene woofer; 1.5″ convex fabric-dome midrange; 1″ convex fabric-dome tweeter; 0.75″ polycarbonate fluidome supertweeter; mylar capacitors; ultra-low-resistance air-core inductors. Imp and resonance compensated. Finished cabinet with removable grilles and binding-post terminals. FR 36-21,000 Hz ± 3 dB; min power 15 W rms; max power 150 W rms; sens 92 dB SPL/W/m; imp 6 ohms. Mahogany or cherry wood veneer. 16″ w x 27.88″ h x 9.94″ d; 46 lb $750/pr

PN10 3-Way Speaker
Floor-standing 4th-order-vented speaker with LCR-type modified quasi 2nd-order phase-coherent network. Features 10″ polypropylene woofer; 1.5″ convex fabric-dome midrange; 1″ polycarbonate fluidome tweeter; mylar capacitors; ultra-low-resistance air-core inductors; binding-post terminals. Imp and resonance compensated. Cabinet has built-in 2″ pedestal and removable balck-knit grilles. FR 36-21,000 Hz ± 3 dB; min power 15 W rms; max power 150 W rms; sens 90 dB SPL/W/m; imp 6 ohms. Hickory vinyl finish. 16″ w x 27.88″ h x 9.94″ d; 42 lb $499/pr

Monitor 200 3-Way Speaker
Bookshelf acoustic-suspension speaker. Features 12″ polypropylene woofer; 4.5″ polypropylene midrange; 0.75″ polycarbonate fluidome tweeter. Push-spring terminals and removable black-knit grilles. FR 38-21,000 Hz ± 3 dB; min power 10 W rms; max power 100 W rms; sens 92 dB SPL/W/m; imp 6 ohms. Woodgrain vinyl finish. 13.25″ w x 23″ h x 12″ d; 35 lb $449/pr

PN8 Compact 3-Way Speaker
Acoustic-suspension speaker with 0.75″ ferrofluid polycarbonate tweeter, 4.5″ polypropylene-cone midrange, and 8″ polypropylene-cone woofer. FR 60-21,000 Hz ± 3 dB; min power 10 W rms; max power 80 W rms; sens 90 dB SPL/W/m; imp 4 ohms; Hickory vinyl veneer; 9.75″ w x 15.25″ h x 8.88″ d; 32 lb/pr $299/pr

PN7 3-Way Speaker
Bookshelf bass-reflex speaker with 6.5″ polypropylene woofer; 1″ convex fabric-dome tweeter; 0.75″ polycarbonate fluidome supertweeter. Push-spring terminals and removable black-knit grilles. FR 55-21,000 Hz ± 3 dB; min power 10 W rms; max power 70 W rms; sens 90 dB SPL/W/m; imp 4 ohms. Hickory vinyl finish. 9.25″ w x 14.5″ h x 8.5″ d; 26 lb/pr $249/pr

PN 6+ 2-Way Speaker
Bookshelf speaker with front-mounted Diaduct-port design. Features 0.75″ ferrofluid dome tweeter; 6.5″ polypropylene woofer. FR 55-21,000 Hz ± 3 dB; sens 89 dB SPL/W/m; min power 10 W rms; max power 60 W rms. Hickory vinyl veneer; 9.25″ w x 14.5″ h x 7.88″ d; 26 lb/pr$229/pr

PN6 2-Way Speaker
Bookshelf acoustic-suspension speaker with 6.5″ polypropylene woofer; 0.75″ polycarbonate flui-

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CIRCLE NO. 29 ON READER SERVICE CARD

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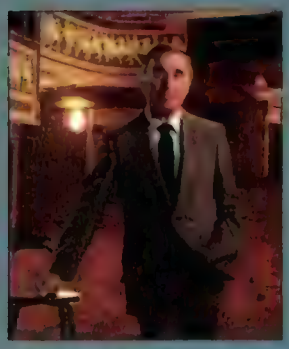

Dr. Sidney Harman, Founder and Chairman of Harman Kardon

Blessed in audio breakthroughs and advanced designs, Harman Kardon's Citation division introduced the world's first Unitrack/Quad amplifier in 1963—the Citation 2 vacuum tube amplifier in 1967, the Citation 10, the first FM stereo tuner with Phase Locked Loop PLL MPX decoding was introduced. In 1977, the 160-Watt per-channel Citation 18 became the first power amplifier to feature true negative feedback. 1981 saw the introduction of the Citation 6X, its exclusive High Instantaneous Current Capability (HICC) design provided the instantaneous current required to precisely drive and control any loudspeaker system.

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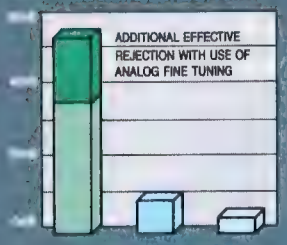

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Citation

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Citation. The next generation.

dome tweeter. Push-spring terminals and removable black-knit grilles. FR 55-21,000 Hz ± 3 dB; min power 10 W rms; max power 60 W rms; sens 88 dB SPL/W/m; imp 4 ohms. Hickory vinyl finish. 9.25" wide x 14.5" high x 7.44" deep; weight 24 lb/pr $199/pr

PN 5+ 2-Way Speaker
Bookshelf speaker with Diaduct-port design. Features 0.75" polycarbonate ferrofluid tweeter; 5.25" polypropylene-cone woofer. FR 65-21,000 Hz; sens 86 dB SPL; power range 10-50 W; imp 6 ohms; 6.75" w x 11.25" h x 6.88" d; 17 lb/pr $149/pr

PIONEER

CS-V900D 3-Way Speaker
Magnetically shielded audio/video speaker with 12" polymer-graphite-cone woofer, 4.75" one-piece solid-boron-cone midrange, and beryllium ribbon-type tweeter. Features metalized-film capacitors and OFC cables in crossover; rounded corners on front baffle board; floating grille; Pioneer's LDMC (linear drive magnetic circuit), EBD (electronic bass drive), and DRS (dynamic response suspension). Nominal imp 6 ohms; sens 91 dB SPL/W/m; max power 240 W; crossover frequencies 650 and 4,000 Hz. Genuine walnut veneer. Sold only in mirror-imaged pairs. 15.38" w x 26.75" h x 13.88" d 1,300/pr

DSS-E10 3-Way Speaker
Bass-reflex speaker with 12" polymer-graphite-cone woofer, 4,75" boron-cone midrange, and beryllium ribbon tweeter. Features mirro-image driver alignment; beveled cabinet edges and floating grilles; Pioneer's LDMC (linear drive magnetic circuit), EBD (electronic bass drive), and DRS (dynamic response suspension). Nominal imp 6 ohms; sens 91 dB SPL/W/m; max power 240 W. Genuine walnut veneer. Sold only in mirror-imaged pairs. 26.75" w x 15.38" h x 13.88" d $1,100/pr

DSS-9 3-Way Speaker
Bass-reflex speaker with 12" polymer-graphite-cone woofer, 2.62" boron-cone midrange; beryllium ribbon tweeter. Features mirror-image driver alignment; Pioneer's LDMC (linear drive magnetic circuit), EBD (electronic bass drive), and DRS (dynamic response suspension). Nominal imp 6 ohms; sens 91 dB SPL/W/m; max power 240 W. Walnut-grain vinyl finish. Sold only in mirror-imaged pairs. 26.75" w x 15.38" h x 13.88" d $1,060/pr

DSS-7 3-Way Speaker
Bass-reflex speaker with 12" polymer-graphite-cone woofer, 2.62" boron-cone midrange, and beryllium ribbon tweeter. Features mirror-image driver alignment; Pioneer's LDMC (linear drive magnetic circuit), EBD (electronic bass drive), and DRS (dynamic response suspension). Nominal imp 6 ohms; sens 91 dB SPL/W/m; max power 210 W. Walnut-grain vinyl finish. Sold only in mirror-imaged pairs. 25.56" w x 14.56" h x 13.56" d $720/pr

CS-707 4-Way Speaker
Bass-reflex speaker with 15.75" dual-voice-coil woofer, 4.75" midrange, horn tweeter with acoustic lens, and twin-piezo supertweeter. Features EBD (electronic bass drive); 3-position tone selector; LED power indicator. Imp 8 ohms; sens 98 dB SPL/W/m; max power 300 W. Walnut-grain vinyl finish. 28.56" h x 17.69" w x 10.56" d$720/pr

CS-V90 4-Way Speaker
Magnetically shielded speaker with 12" woofer, 6.31" low midrange, 4.75" high midrange, and 2" tweeter. Nominal imp 6 ohms; sens 90 dB SPL/W/m; max power 120 W. Rosewood-grain vinyl finish. Each enclosure measures 15.34" wide x 47.44" high x 16.81" deep $700/pr

CS-607 4-Way Speaker
Bass-reflex speaker with 12" dual-voice-coil woofer, 4.75" midrange, horn tweeter with acoustic lens, and twin-piezo supertweeter. Features EBD (electronic bass drive); LED power indicator. Imp 8 ohms; sens 96 dB SPL/W/m; max power 210 W. Walnut-grain vinyl finish. 25.56" h x 16.12" w x 11.25" d $600/pr

DSS-5 3-Way Speaker
Bass-reflex speaker with 10" cone woofer, 2.62" cone midrange, and 1" dome tweeter. Features mirror-image driver alignment; Pioneer's LDMC (linear drive magnetic circuit), EBD (electronic bass drive), and DRS (dynamic response suspension). Imp 8 ohms; sens 91 dB SPL/W/m; max power 120 W. Walnut-grain vinyl finish. Sold only in mirror-imaged pairs. 22.44" w x 12.81" h x 11.44" d $500/pr

DSS-E6 3-Way Speaker
Features 7.88" polymer-graphite-cone woofer; 2.88" boron-cone midrange; beryllium ribbon tweeter; mirror-image driver alignment; Pioneer's LDMC (linear drive magnetic circuit), EBD (electronic bass drive), and DRS (dynamic response suspension). Nominal imp 6 ohms; sens 91 dB SPL/W/m; max power 120 W. Sold only in mirror-imaged pairs. 18.5" w x 10.62" h x 9.56" d $480/pr

CS-V9920 4-Way Speaker
Floor-standing magnetically shielded bass-reflex speaker with 15" woofer, 5" midrange, 2.5" tweeter, and 2" supertweeter. Imp 8 ohms; sens 90 dB SPL/W/m; max power 150 W. 35.44" h x 17.31" w x 12.81" d $460/pr

CS-V70A 3-Way Speaker
Magnetically shielded speaker with 12" woofer, 4.75" midrange, and 2.5" tweeter. Nominal imp 6 ohms; sens 90 dB SPL/W/m; max power 100 W. Rosewood-grain vinyl finish. 15.38" w x 36.56" h x 13.5" d $400/pr

CS-V9020 3-Way Speaker
Floor-standing magnetically shielded bass-reflex speaker with 12" woofer, 5" midrange, and 2.5" tweeter. Imp 8 ohms; sens 90 dB SPL/W/m; max power 150 W. 35.44" h x 14.94" w x 12.81" d $360/pr

CS-407 3-Way Speaker
Bass-reflex speaker with 12", 4" midrange, and 2.5" cone tweeter. Imp 8 ohms; sens 94 dB SPL/W/m; max power 150 W. Walnut-grain vinyl finish. 24.81" h x 14.94" w x 10.38" d ... $360/pr

S-V909X(BK) 3-Way Speaker
Magnetically shield speaker with 8.69" polymer-graphite woofer, 1.38" midrange, and 1" tweeter. Features tone control. Max power 120 W. 18.12" h x 10.62" w x 9.44" s $360/pr

CS-G301WAII 3-Way Speaker
Bass-reflex bookshelf speaker with 12" woofer, 4.75" midrange, and 2.62" tweeter. Imp 6 ohms; sens 91.5 dB SPL/W/m; max power 120 W. Walnut-grain vinyl finish. 26.5" h x 14.94" w x 13" d $280/pr

S-V707X(BK) 3-Way Speaker
Magnetically shielded speaker with 8.69" polymer-graphite woofer, 2.06" midrange, and 1.69" tweeter. Max power 100 W. 18.12" h x 10.62" w x 9.44 d $270/pr

CS-VX50A 2-Way Speaker
Magnetically shielded compact speaker designed as surround-sound or external TV monitor speakers. Wall mountable (rear brackets attached). Features 7" woofer; 2.5" tweeter. Nominal imp 6 ohms; sens 90 dB SPL/W/m; max power 60 W. Rosewood-grain vinyl finish. Sold as mirror-image pairs. 8.69" w x 13.75" h x 7.5" d . $200/pr

CS-G201WAII 3-Way Speaker
Bass-reflex bookshelf speaker with 10" woofer, 3" midrange, and 2.62" tweeter. Imp 6 ohms; sens 90 dB SPL/W/m; max power 100 W. Walnut-grain vinyl finish. 24" h x 13.75" w x 11.81" d $200/pr

CS-G101WAII 2-Way Speaker
Sealed-box bookshelf speaker with 10" woofer and 2.62" tweeter. Imp 6 ohms; sens 90 dB SPL/W/m; max power 50 W. Walnut-grain vinyl finish. 22.44" h x 13" w x 7.81" d $140/pr

S-X7 Full-Range Speaker
Compact bass-reflex speaker desined for surround-sound applications. Features 3.5" driver; sens selector switch; black vinyl finish. Imp 16 ohms; sens 90 dB SPL/W/m; max power 30 W. 5.44" h x 7.5" w x 4.5" d $120/pr

POLK AUDIO

SDA-SRS Signature Reference Speaker
Floor-standing speaker that incorporates coherent Line-Source True Stereo (SDA) technology for 3-dimensional imaging. Features 15" planar passive radiator; 8 6.5" trilaminate polymer midranges; 4 1" silver-coil soft-dome tweeters. FR 14-2,600 Hz ± 3 dB; power range 10-1,000 W; sens 95 dB SPL/W/m; imp 4 ohms. Oiled oak, walnut, or black-lacquer finish. 21" w x 63.75" h x 13" d $2,990/pr

SDA-SRS2 Signature Reference Speaker
Floor-standing smaller-version SDA-SRS. Features Polk's SDA True Stereo Technology for 3-dimensional imaging; 15" passive radiator; 4 6.5" trilaminate polymer bass/midrange drivers; 2 1" silver-coil polymer-dome tweeters. Power range 10-750 w rms; sens 93 dB SPL/W/m; imp 4 ohms. Oiled-walnut, -oak, or black-lacquer finish $2,000/pr

SDA-1C 3-Way Speaker
Floor-standng speaker. Features 4 Polk MW 6600x trilaminate polymer bass/midrange drivers; Stereo/Dimensional isophase crossover system for blending all 12 active drivers of 2 SDA-1's; SL 2000 L/P high-frequency radiator incorporating an exclusive silver-coated voice coil windings for FR beyond 25,000 Hz and hyperbolic section polyamide diaphragm; sub-bass radiator. Recommended power 10-500 W; FR 15-26,000

PRICES LISTED
are manufacturers' suggested retail prices
(also referred to as *list* prices);
actual selling prices are set by individual dealers.
All prices are subject to change without notice.

Hz; imp 4 ohms; crossover frequencies 50, 100, and 2,500 Hz; system resonance 15 Hz; sens 95 dB SPL/W/m. Oiled-walnut or -oak cabinet. Black studio version at lower cost. 43.5" h x 16.5" w x 12" d; 85 lb $1,600/pr

SDA-2B 2-Way Speaker
Similar to SDA-1B except 2 6600X bass/midrange and SL2000 tweeter drivers. Crossover frequencies at 50 and 2,500 Hz. FR 15-26,000 Hz; system resonance 15 Hz; sens 92 dB SPL/W/m; imp 6 ohms. Oiled-walnut or -oak cabinet. Black studio version at lower cost. 39.5" h x 16.5" w x 12" d $1,200/pr

SDA Compact Reference System + (CRS+)
Bookshelf speaker with SDA technology for life-like three-dimensional imaging. Features 2 6.5" trilaminate polymer bass/midrange drivers; 1" SL 2,000 polymer dome tweeter; 10" passive cone radiator. FR 24-25,500 Hz; power range 10-250 W; sens 92 dB SPL/W/m; imp 4 ohms. Black ash, walnut or rosewood furniture-grade vinyl finish. Hand-rubbed oak or walnut finish available at extra cost. 20" w x 12.5" h x 9.5" d..... $800/pr

R.T.A. 12C Monitor 3-Way Speaker
Real-time-array floor-standing speaker with 12" low-resonance molded-foam subwoofer, 2 6.5" polymer-laminated bass/midrange drivers, and SL 2,000 tweeter. FR 17-25,000 Hz; crossover frequencies 40 and 2,000 Hz; power range 10-500 W; imp 6 ohms. Walnut- or rosewood-grain finish. Genuine walnut-veneer finish available at extra cost. 39" h x 16" w x 12" d..... $960/pr

R.T.A. 11T Monitor 3-Way Sepaker
Real-time-array floor-standing speaker with 2 8" low-resonanace subwoofers, 2 6.5" polymer-laminated bass/midrange drivers, and a 1" polymer-dome tweeter. FR 15-25,000 Hz; power range 10-250 W; imp 6 ohms; crossover frequencies 60 and 2,500 Hz. Black-ash or rosewood-grain finish $850/pr

Monitor 10B 3-Way Speaker
Sub-bass radiator/sealed floor-standing speaker with 10" fluid-coupled subwoofer, 2 6.5" bass/midrange drivers, and 1" soft-dome tweeter. FR 22-25,000 Hz; power range 10-250 W; imp 6 ohms; crossover frequencies 60 and 3,000 Hz. Black-ash, walnut-grain, or rosewood-grain finish. Genuine walnut-veneer finish available at extra cost. 28" h x 16" w x 11.5" d $660/pr

Monitor 7C 3-Way Speaker
Sub-bass radiator/sealed bookshelf speaker with 10" subwoofer, 6.5" plasticized bass/midrange driver, and 1" soft-dome tweeter. FR 26-25,000 Hz; power range 10-100 W; imp 6 ohms; crossover frequencies 60 and 3,000 Hz. Black-ash, walnut-grain, or rosewood-grain finish. 24" h x 14" w x 9.25" d $520/pr
Monitor 5B. Similar to 7C but 8" subwoofer and SL 2,000 tweeter. FR 31-25,000 Hz; power range 10-60 W; imp 4 ohms. 21.5" h x 10.5" w x 8.5" d $400/pr

Monitor 5Jr+ 3-Way Speaker
Bookshelf speaker with 1" SL 2,000 tweeter, 6.5" tri-laminate polymer bass/midrange driver, and 6.5" fluid-coupled subwoofer. FR 29-26,000 Hz; power range 10-100 W; imp 4 ohms. Black-ash, walnut-grain, or rosewood-grain vinyl finish $300/pr

Monitor 4.5 2-Way Speaker
Bookshelf speaker with 6.5" tri-laminate polymer bass/midrange driver, 1" moving-coil highd-frequency radiator, and isophere crossover. Features cabinet and grille design to eliminate diffraction effects. FR 30-25,000 Hz ± 3 dB; power range 10-100 W; max output 114 dB SPL; crossover frequency 4,500 Hz; imp 6 ohms. 17" h x 9" w x 8.88" d $220/pr

Monitor 4A 2-Way Speaker
Bookshelf speaker with trilaminate-polymer 6500 woofer, 1" moving-coil high-frequency radiator, and isophase crossover network. Features cabinet and grille design to eliminate diffraction effects and terminated transmission duct that loads bass/midrange driver into deep-bass range. FR 55-21,000 Hz ± 3 dB; power range 10-80 W; max output 114 dB SPL; crossover frequency 4,500 Hz; imp 6 ohms. 14.5" H x 8.5" W x 7.36" D$170/pr

POLYDAX

Audax EZ-302 2-Way Speaker
Compact speaker with die-cast aluminum, mirror-imaged, wedge-shaped enclosure to eliminate internal standing waves and optimize acoustic coupling. Features 4" cone woofer with butyl rubber surround and die-cast ZAMAC basket; 1" soft-dome textile tweeter matched to woofer. FR 60-20,000 Hz ± 3 dB; min power 10 W rms; max power 50 W rms; sens 86 dB SPL/W/m; imp 4 ohms. Available in matte-black finish. 8" w x 5" h x 6.62" d; 7 lbs..... $300/pr

PROTON

AL-300 Floor-Standing Speaker
Floor-standing speaker withs 12" woofer air-suspension enclosure with 30-oz magnet and diffraction control to alter radiation pattern; 3.5" treated cone midrange with integral subenclosure; 1" polyester soft-dome tweeter with fluid cooling.

System impedance 4 ohms nominal, 6 ohms weighted average, 3.3 ohms min; sens 90 dB SPL/W/m; 100 W average 1,000 W peak into 4 ohms for 250 ms repeated 10 times with 2 second intervals. FR 39-20,000 Hz ± 2 dB; THD <1% at 85 dB SPL..... $899/pr

PSB SPEAKERS by LINCOLNWOOD

All speakers are 2-way, with 1" dome tweeters; imp 8 ohms; long-throw woofers with aluminum voice coil; acoustic Butterworth crossovers with air-core inductors and bipolar capacitors.

Stratus Tower Speaker
8" woofer with focused magnetic gap; cloth-dome tweeter; 2nd-order crossover at 1,800 Hz; light oak, dark oak, black wood finishes. Frequency response 60-20,000 ± 2 dB; sensitivity 88 dB SPL/2.83 V/m; power range 15-150 W; 13.5" wide x 29.75" high x 12.75" deep; 45.5 lb each $1,300/pr

70R Stand-Mount Speaker
8" woofer with focused magnetic gap; 2nd-order crossover at 1,800 Hz; black or hickory. FR 60-20,000 ± 2 dB; sens 88 dB SPL/2.83 V/m; power range 15-150 W; 13.5" w x 29.75" h x 12.75" d; 45.5 lb ea $600/pr

50R Stand-Mount Speaker
8" woofer with focused magnetic gap; 2nd-order crossover at 1,800 Hz; black or hickory. FR 70-20,000 ± 2 dB; sens 88 dB SPL/2.83 V/m; power range 15-150 W; 11.5" w x 22.25" h x 10.5" d; 29 lb ea $500/pr

40R Stand-Mount Speaker
8" woofer with focused magnetic gap; 3rd-order crossover at 2,000 Hz; black or hickory. FR 70-20,000 ± 2 dB; sens 90.5 dB SPL/2.83 V/m; power range 15-150 W; 10.25" w x 21" h x 17" d; 24 lb ea $350/pr

30R Bookshelf Speaker
6" woofer; 3rd-order crossover at 2,500 Hz; black or hickory. Frequency response 80-20,000 ± 2 dB; sensitivity 87 dB SPL/2.83 V/m; minimum power 15 W; maximum power 125 W; 8.5" wide x 14.5" high x 8.25" deep; 15 lb ea.... $250/pr

Subwoofer

Subwoofer 1
Optimized for 50R speakers, can be used with 30R or other speakers with sens 86-92 dB SPL/W/m; stereo crossover network at 100 Hz rolls off frequencies going to satellite speakers at 6 dB/octave; 2 8 extra-long-throw woofers with aluminum voice coils can be combined for mono; tuned port; black or hickory finish; Barton hickory or black ash. Power range 30-200 W rms; system resonance 26 Hz; sens 88 dB SPL/W/m; 22" w x 22" h x 22" d; 90 lb $700

QUAD

ESL-63 Electrostatic Speaker
Full-range electrostatic doublet speaker with dipole source (radiates sound from front and back of panel, reflecting energy from wall behind speakers). Features 2 protection circuits. Power range 100-190 W; sensitivity 86 dB, 2.83 V rms; impedance 8 ohms; axis band limits −6 dB at 35 Hz, third-order, −6 dB at 20,000 Hz; 92.5 x 66 x 27 cm; 23 kg; black $3,150/pr
Rosewood $3,250/pr
ESL-63 US. Professional version..... $3,600
ESL-63 Pro. Professional version with carrying handles $3,800/pr

QUASAR

SW99 2-Way Speaker
Bookshelf box speaker. Features 10-W/ch internal amp; 5.5" cone woofer; 2.5" cone tweeter. FR 35-20,000 Hz ± 10 dB; max power 10 W; imp 8 ohms; black; 7.28" w x 12.28" H x 8.16" d; 20 lb $200/pr

SW30 Full-Range Speaker
Bookshelf round-ball speaker designed for use as rear-channel speakers. Features 4" cone midrange. Includes stands. FR 150-20,000 Hz ± 10 dB; black. 6" diameter; 5.25 lb $50/pr

RCA

SPK500 Dimensia 3-Way Speaker
Floor-standing bass-reflex speaker with Zero Magnetic Distortion for placement next to video monitor. Features 11" cross-carbon woofer; 4" pure carbon midrange; 1" titanium-alloy dome tweeter. FR 28-20,000 Hz ± 3 dB; max input power 160 W rms; imp 8 ohms. 12.75" w x 36" h x 12.5" d $549/pr

SPK400 Dimensia 3-Way Speaker
Floor-standing acoustic-suspension speaker with Zero Magnetic Distortion. Features 12″ nylon-coated woofer; 4″ resin-coated midrange; 1″ soft dome tweeter. FR 35-20,000 Hz ± 3 dB; max input power 120 W rms; imp 8 ohms. 13.63″ w x 24.25″ h x 12.75″ d $399/pr

SPK250 Dimensia 2-Way Speaker
Acoustic-suspension speaker with Zero Magnetic Distortion. Features 8″ polypropylene woofer; 1″ soft-dome tweeter. FR 45-20,000 Hz ± 3 dB; max input power 80 W rms; imp 8 ohms. 9.5″ w x 15.63″ h x 9.5″ d $269/pr

SPK050 Surround-Sound Speaker
Full-range speaker with Zero Magnetic Distortion. Features 4″ polypropylene cone; color-coded input terminals; pivoting mounting brackets. FR 200-15,000 Hz ± 3 dB; max input power 50 W rms. 7.13″ w x 7.38″ h x 7″ d $149

REALISTIC

Nominal imp of all Realistic speakers is 8 ohms.

Mach Two 3-Way Speaker
Vented Ferrofluid-cooled speaker with 15″ woofer, 5″ cone midrange, 4″ dual-radial superhorn tweeter; level controls for midrange and tweeter; walnut veneer. Max power 160 W; sens 94 dB SPL/W/m; 27.56″ x 17.75″ x 11.81″ .. $500/pr

Nova 15 Speaker
Walnut-veneered vented speaker with 2.5″ tweeter. Max power 60 W; 19″ x 16.75″ x 7.5″ $160/pr

MC-1800 Acoustic-Suspension Speaker
Bookshelf speaker with 8″ high-compliance woofer and 2.5″ wide-dispersion tweeter. FR 70-20,000 Hz ± 3 dB; max power 50 W rms; imp 8 ohms. Oiled-walnut finish. 10.9″ W x 17.75″ H x 6.9″ D $120/pr

MC-800 2-Way Bookshelf Speaker
6.5″ woofer; 2.5″ cone tweeter; removable cloth grille; push-on speaker terminals. Max power 40 W. 13.5″ x 8.88″ x 5.31″ $80/pr

40-165 Mini Speakers
2.5″ square drivers; attached cable with mini plug for portable CD players and pocket stereos. Max power 1 W; 3.6″ x 2.9″ x 1.75″ $20/pr

40-155 Stereo Mini Speaker
Single enclosure with 2 1.5″ drivers; mini plug for portable CD players and pocket stereos. 3.12″ x 3.25″ x 1.25″ $10

Optimus Speakers
1000. Floor-standing bass-reflex tuned-port speaker with 15″ high-compliance woofer, 5″ midrange, 3″ tweeter. FR 50-20,000 Hz ± 3 dB; max power 100 W rms; sens 92 dB SPL/W/m; imp 8 ohms. Oiled-walnut finish. 17.3″ W x 31.8″ H x 11.6″ D; 44 lb $400/pr
900. Floor-standing bass-reflex tuned-port speaker with 12″ high-compliance woofer, 4″ midrange, 2.5″ Ferrofluid tweeter. FR 50-20,000 Hz ± 3 dB; max power 100 W rms; sens 90 dB SPL/W/m; imp 8 ohms. Oiled-walnut finish. 14″ W x 29.75″ H x 10.88″ D; 33 lb $300/pr
600. Bass-reflex speaker; 8″ woofer; 4″ midrange; 2.5″ cone tweeter; removable cloth grille; recessed color-coded spring-loaded terminals. Max power 70 W; sens 90 dB SPL/W/m. Oiled walnut veneer $200/pr

Minimus Speakers
7W. Walnut-veneer mini speaker with 4″ woofer; 1″ soft-dome tweeter; removable cloth grille; spring terminals. Max power 40 W; 8″ x 5″ x 4″ $120/pr
7. Die-cast metal enclosure; long-excursion 4″ woofer; 1″ soft-dome tweeter; deluxe crossover for smooth response without artificial peaks; hanger slots and recessed spring connectors for wall mounting. Max power 40 W; 7.1″ x 4.4″ x 4.3″ $100/pr
25. 5″ long-throw woofer; 2.5″ tweeter; walnut veneer. Maximum recommended power 40 W; 11″ x 6.7″ x 4.3″ $60/pr
0.6. Powered speakers with 2.5″ drivers for use with portable CD players and pocket stereos; 8 C batteries needed; with case, strap, cable. 5.6″ H $50/pr
18. 4″ driver; spring terminals; walnut vinyl finish. 9.4″ x 5.75″ x 4.75″ $44/pr
3.5. Molded enclosure with steel grille; spring terminals for attached cables. Maximum power 15 W; 5.75″ x 3.6″ x 3.1″ $40/pr
2.5. 4″ driver; walnut vinyl finish. Max power 10 W; 6.6″ x 4.9″ x 3.1″ $32/pr
3. 5″ driver; walnut-vinyl finish. Max power 7 W; 10″ x 8.5″ x 5.5″ $28/pr
0.3. Cube speaker with 3″ driver; walnut veneer. Max power 7 W; 4″ x 4″ x 3.3″ $26/pr
Mounting Brackets. For 7W and 7 ... $14.95/pr
Mounting Brackets. For 3.5 ..... $9.95/pr

Supertweeters
Dynamic. Extends response to 40,000 Hz; mounts in or outside speaker cabinet; maximum power 50 W; 4″ H $22
Piezo. Extends response to 27,000 Hz. Max power 75 W; sens 96 dB SPL/W/m $13

REVOX

Agora B Amplified Speaker
Floor-standing triamplified active ported speaker incorporating three 100-watt amps with active dividing networks in each enclosure. Designed to be driven from preamp or direct from high-level sources such as CD player. Features push-pull dual-woofer design with one woofer facing into enclosure to eliminate even-order harmonic distortion. Two 8″ cone woofers; 4.75″ cone mid-

range; 0.75″ titanium-dome tweeter. Low-frequency amp utilizes feedback to compensate for back-EMF. Also features 4-step bass and treble controls; bass-blend switch; auto power on/off. FR 30-21,000 Hz ± 3 dB; sens 110 dB SPL/W/m; real walnut veneer finish with brown grille or polished ebony finish with black grille. 16.75″ w x 29″ h x 16.75″ d; 68 lb $4,000/pr
Black lacquer finish $4,400/pr

Symbol MK-II 3-Way Speaker
Floor-standing speaker with 12.2″ passive radiator. Features 12.2″ woofer; 4.8″ midrange; 1″ tweeter; screw-lock connection terminals; fuse overload protection. Max power input 200 W continuous, 300 W peak; imp 4 ohms; sensitivity 92 dB sound-pressure level with input of 1 watt measured at 1 meter. Dark walnut veneer finish; 16.7″ w x 39.8″ h x 16.3″ d; 112 lb .. $3,200/pr

Atrium MK-II 3-Way Speaker
Floor-standing bass-reflex speaker features 10.2″ woofer; 4.8″ midrange; 1″ tweeter; screw-lock connection terminals; fuse overload protection. Max power input 140 W continuous, 180 W peak; imp 4 ohms; sens 91 dB SPL/W/m. Dark walnut veneer finish; 13.5″ w x 33.6″ h x 14.5″ d; 84 lb $2,000/pr

Plenum MK-II 3-Way Speaker
3-way bass-reflex bookshelf speaker. Features 10.2″ woofer; 4.5″ midrange; 1″ tweeter; screw-lock connection terminals; fuse overload protection. Max power input 130 W continuous, 170 W peak; imp 4 ohms; sens 89 dB SPL/W/m. Dark walnut veneer finish; 13.7″ w x 22.8″ h x 13.4″ d; 55.2 lb $1,600/pr

Forum MK-II 3-Way Speaker
3-way bass-reflex bookshelf speaker. Features 9.6″ woofer; 3.9″ midrange; 0.7″ tweeter; screw-lock connection terminals; fuse overload protection. Max power input 110 W continuous, 150 W peak; imp 4 ohms; sens 88 dB SPL/W/m. Dark walnut veneer finish; 13″ w x 17.5″ h x 13.4″ d; 36.8 lb $1,600/pr

Piccolo Miniature Speaker
Satellite speaker may be used with or without companion subwoofer. Satellites feature 4.19″ cone woofer; 0.75″ dome tweeter. Subwoofer features 10.19″ cone driver. FR 48-22,000 Hz ± 3 dB; power range 20-70 W; sens 86 dB SPL/W/m; imp 4 ohms; black finish. Satellite 5.5″ w x 8.75″ h x 5.75″ d, 5.5 lb; subwoofer 15.36″ w x 14.19″ h x 14.62″ d, 32 lb. Satellites $350/pr
Subwoofer. ..... $375 ea

Studio 4 Acoustic-Suspension Speaker
Compact speaker with black cabinet and metal grille. Features 9″ cone woofer; 1.25″ dome midrange; 0.75″ dome tweeter. FR 40-22,000 Hz ± 3 dB; power range 20-70 W; imp 4 ohms; 11.5″ w x 18.31″ h x 11.62″ d; 20.5 lb $600/pr

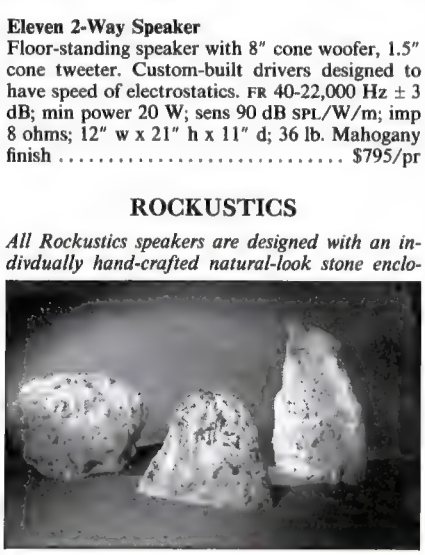
ROBERTSON AUDIO

Twenty-One Infinite-Baffle Speaker
Floor-standing speaker with custom-built drivers designed to have the speed of electrostatics. Features two 8″ cone woofers; 1.5″ cone tweeter. FR 30-22,000 Hz ± 3 dB; min power 20 W; sens 92.5 dB SPL/W/m; imp 4 ohms. 19″ w x 31.5″ h x 9″ d; 54 lb. Mahogany finish $1,695/pr

Eleven 2-Way Speaker
Floor-standing speaker with 8″ cone woofer, 1.5″ cone tweeter. Custom-built drivers designed to have speed of electrostatics. FR 40-22,000 Hz ± 3 dB; min power 20 W; sens 90 dB SPL/W/m; imp 8 ohms; 12″ w x 21″ h x 11″ d; 36 lb. Mahogany finish $795/pr

ROCKUSTICS

All Rockustics speakers are designed with an indivdually hand-crafted natural-look stone enclo-



sure to blend into outdoor landscaping. Rockustics speakers are completely water- and weather-proof for outdoor applications and feature positive, negative, and ground connection terminals.

Stonehenge. 3-way speaker with 8" woofer, 5.4" midrange, and 1" dome tweeter. FR 54-18,500 Hz ± 3 dB; power handling 150 W; imp 4 ohms; sens 90 dB SPL/W/m. 85 lb $1,500/pr

Hillside. 3-way speaker with 8" woofer, 5.4" midrange, and 1" dome tweeter. FR 54-18,500 Hz ± 3 dB; power handling 150 W; imp 4 ohms; sens 90 dB SPL/W/m. 120 lb..... $1,500/pr

Rocky Jr. 2-way speaker with 6.5" long-throw polypropylene-cone woofer, 1" soft-dome ferrofluid-cooled tweeter, and third-order crossover (3,000 Hz). FR 58-18,500 Hz ± 2.5 dB; impedance 5 ohms nominal, 3.7 ohms minimum; sensitivity 90 dB SPL/W/m $650/pr

ROKSAN ENGINEERING

Darius Speaker with Integral Stand

2-way infinite-baffle speaker with dedicated cage frame on spike feet that clamps cabinet at 8 nodal points; all panels of 1" Medite with mitred joints; tweeter mounted on minibaffle suspended on springs from main cabinet (desiged to resonate at frequency well below tweeter's range) for isolation from woofer and cabinet effects; can be used away from walls, angled in at approximately 90°; separate crossover. Cabinet 16" x 18.5" x 10.5"; stand 17.5" x 38" x 13".

Rosewood $3,500/pr
White ash $3,030/pr
Walnut $2,900/pr
Black ash $2,750/pr
Crossover $265

SANSUI

XL-500C 4-Way Speaker

Floor-standing passive-radiator tower speaker. Features ported enclosure; polypropylene mica and carbon midrange (PM-C); 12" passive rad; 12" TCCF cone woofer; 4.75" cone midrange; 2" dome tweeter; 0.62" dome supertweeter. Max power 320 W; sens 93 dB SPL/W/m; imp 8 ohms. Available in walnut finish. 15" w x 40.56" h x 13" d; 55 lb $1,320/pr

XL-300 4-Way Speaker

Floor-standing speaker. Features ported enclosure; 3-step level control; 10.5" TCCF cone woofer; 4.75" PC-M cone midrange; 2" dome tweeter; 0.62" dome supertweer. Max power 270 W; sens 92 dB SPL/W/m; impedance 8 ohms. Available in walnut finish. 15" w x 31.12" h x 9.06" d; 46.2 lb $1,000/pr

XL-100 3-Way Speaker

Floor-standing bass-reflex speaker. Features ported enclosure; 3-step level control; 10.5" TCCF (tri-composite carbon-fiber) cone woofer; 4.75" PC-M cone midrange; 2" dome tweeter. Max power 200 W; sens 91 dB SPL/W/m; imp 8 ohms. Available in walnut finish. 14.75" w x 26.56" h x 12.81" d; 28.7 lb $850/pr

S-5000U 4-Way Speaker

Floor-standing speaker features 12" cone woofer; 5" cone ferrofluid midrange; 1" dome tweeter with ferrofluid; 0.50" dome supertweeter with ferrofluid. Max power 200 W; sens 91 dB/W/m; imp 8 ohms. 16" w x 41" h x 11" d; 48lb$850/pr. **S-3000U.** Similar to S-5000U except does not have 0.50" dome supertweeter $700/pr

S-2000U 3-Way Speaker

3-way design with passive radiator. Features 12" cone woofer; 4" cone midrange; 3" cone tweeter; 12" cone passive radiator. Max power 160 W; sens 92 dB/W/m; imp 8 ohms. 15.25" w x 41" H x 11" D; 44 lb $526/pr

S-V929U 4-Way Speaker

Floor-standing magnetically shielded speaker for audio/video use. Features 12" cone passive radiator; 12" cone woofer; 4" cone midrange; 2.5" cone tweeter. FR 29-22,000 Hz ± 3 dB; max power 160 W rms; sens 92 dB SPL/W/m; imp 8 ohms. Simulated wood-grain finish. 15.25" w x 41" h x 11" d; 48 lb $600/pr

S-V828U 4-Way Speaker

Floor-standing magnetically shielded speaker for audio/video use. Features 10" cone passive radiator; 10" cone woofer; 4" cone midrange; 2.5" cone tweeter. FR 32-22,000 Hz ± 3 dB; max power 160 W rms; sens 91 dB SPL/W/m; imp 8 ohms. Simulated wood-grain finish. 13" w x 37.44" h x 11" d; 41 lb $460/pr

S-1000U 3-Way Speaker

Features 12" cone woofer; 4" cone midrange; 3" cone tweeter. Built in self-restoring overload protector. FR 32-22,000Hz. max power 160/W; sens 91 dB SPL/W/m; imp 8 ohms. 15.25" w x 37.5" h x 11" d; 39lb $350/pr

S-V727U 4-Way Speaker

Floor-standing magnetically shielded speaker for audio/video use. Features 10" cone passive radiator; 8" cone woofer; 4" cone midrange; 2" cone tweeter. FR 30-22,000 Hz ± 3 dB; max power 65 W rms; sens 90 dB SPL/W/m; imp 8 ohms. Simulated wood-grain finish. 13" w x 34" h x 10.25" d; 28.5 lb $320/pr

SCOTT

All Scott speakers use acoustic-suspension enclosures with PVA-coated woofers.

S12T6 Multidirectional Speaker

Floor-standing 3-way 6-driver speaker with 12" woofer, 2 4.5" ferrofluid-cooled midranges (1 front, 1 top), 3 1.75" ferrofluid-cooled tweeters (1 front, 2 top); oak-vinyl finish. FR 42-20,000 ± 4 dB; power range 15-175 W rms; sens 92 dB SPL/W/m; 16.5" w x 31.2" h x 10.7" d .... $480/pr **S10T5.** Similar to S12T6 except 10" woofer, 5 drivers, max power 150 W $400/pr

S153 Floor-Standing 3-Way Speaker

15" woofer, 4.5" ferrofluid-cooled midrange, 1.75" ferrofluid-cooled tweeter. FR 40-20,000 Hz ± 4 dB; power range 15-175 W rms; sensitivity 91 dB SPL/W/m; 18.75" wide x 33" high x 11" deep; 45 lb ..... $400/pr **S123.** Similar to above except 12" woofer and max power 150 W $330/pr

Audiophile One 2-Way Speaker

Bookshelf speaker with 3-way binding posts; passive tweeter protection; air-core crossover coils; 6.5" woofer; 1" textile soft-dome tweeter. FR 55-22,000 Hz ± 4 dB; power range 15-150 W rms; sens 90 dB SPL/W/m; imp 4 ohms. Oak-vinyl finish. 9.2" w x 14.75" h x 7.12" d $300/pr

S103 3-Way Bookshelf Speaker

10" woofer; ferrofluid-cooled 4.5" midrange; 1.75" center-mounted ferrofluid-cooled tweeter; hickory-vinyl finish. FR 45-20,000 ± 4 dB; power range 10-100 W rms; sens 92 dB SPL/W/m; imp 8 ohms; 11.75" w x 21.75" h x 9" d..... $230/pr

S82 2-Way Bookshelf Speaker

8" woofer; 1.75" ferrofluid-cooled tweeter; hickory-vinyl finish. FR 55-20,000 Hz ± 4 dB; power range 5-85 W rms; sens 92 dB SPL/W/m; 9.5" w x 18" h x 7.6" d..... $160/pr **S62.** Similar to S82 except 6.5" woofer and max power 70 W $140/pr

For explanations of abbreviations, specifications, and technical terms, consult the glossary on page 221.

SDM by SOUND DYNAMICS

All SDM speakers are bass reflex, with 5" cone midrange, 1" horn tweeters, crossovers at 2,000 and 5,000 Hz, nominal impedances of 8 ohms, minimum impedances of 4 ohms, in walnut or black vinyl with black knit grilles.

Monitor Three Speaker

12" woofer. FR 25-22,000 Hz ± 3 dB; sens 98 dB SPL/W/m; power range 15-125 W; 26" x 15" x 12"; 33 lb each..... $600/pr

Monitor Two Speaker

10" woofer. FR 30-22,000 Hz ± 3 dB; sens 97 dB SPL/W/m; power range 10-112 W; 24" x 14" x 9"; 29 lb each..... $500/pr

Monitor One Speaker

8" woofer. FR 35-22,000 Hz ± 3 dB; sens 96 dB SPL/W/m; power range 10-100 W; 23" x 12" x 9"; 29 lb each..... $400/pr

SHAHINIAN ACOUSTICS

Obelisk 3 Speaker

Folded double-prism 50" hybrid transmission line speaker with 8" asymetrically placed high temperature voice coil, poly woofer, 10" mass-loaded-membrane viscous-damped polypropylene passive radiator, 2 1.36" cambric ultra-light exposed dome midranges, 4 0.36" "W"-shaped polymid-dome tweeters. Imp 4 ohms nominal; min power 50 W; max power 500 W. Walnut and oak standard finishes; optional finishes available. 29" h x 14.5" w x 12.5" d 55 lb $1,750/pr

ARC 3-Way Speaker

Vertical transmission-line speaker with time-aligned phase-correct driver placement. 8" high temperature voice coil; polypropylene woofer; 10" mass-loaded-membrane viscous-damped passive radiator; 1.36" cambric ultra-light exposed dome tweeter; imp 4 ohms nominal; min power 30 W; max power 350 W; natural, medium or dark oak finish on 0.75" fiberboard. 27.5" h x 14" w x 9.75" d; 42 lb $1,050/pr

Lyre 3-Way Speaker

Lamb's-wool-filled plastic isolation chamber for 5.25" Poly/Hybrid curved cone midrange. 8" Poly/Hybrid curved textured cone woofer with 1.5" Hi-temp voice coil; 1" Polyamide dome tweeter; 10" passive radiator. FR 30-18,00 Hz −3 dB. Dark or light oak veneer; 23.50" h x 11.75" w x 11.75" d; 43 lb $850/pr

Elf 2-Way Speaker

Forward firing small monitor with tuned-damped vent enclosure. 5.25" polypropylene woofer with rubber edge; 1" polypropylene-dome tweeter. FR 55-18,000Hz −3 dB; imp 6 ohms nominal; min power 25 W; max power 150 W. Natural medium or dark oak finish. 12.5" h x 6.62" w x 7.75" d; 25 lb/pr $375/pr

Subwoofers

Contra Bombarde Subwoofer

Twin conical slot-loaded-horn subwoofer with both channels incorporated in common enclosure each having folded-horn path. Two 8" polypropylene rubber-edged high temperature voice coil woofers; FR 16-1,000 Hz −3 dB; imp 6 ohms nominal/ch; max power short duration peaks 1,000 W. Walnut finish on0.75" Finland Birch. Optional finishes available. 35" h x 27.5" w x 18.5" d; 180 lb..... $850/ea

Double Eagle Stereo Subwoofer
Stereo subwoofer in one enclosure with acoustically separated channels. Two 8" polypropylene rubber-edged high-temperature voice coil woofers; two 10" mass-loaded-membrane viscous damped polypropylene passive radiators. FR 26-1,0000 Hz −3 dB; crossover 18 dB built in at 140 Hz; imp 6 ohms nominal/ch; max power short duration peaks 1,000 W. Walnut finish on Finland birch. Optional finishes available. 30" h x 23" w x 14" d; 105 lb $850/ea

SIGNET

SL-100 Definitive Image Speaker
Floor-standing bass-reflex speaker with Ferralipse, wide-dispersion frequency invariant acoustic lens to provide dispersion greater than 120° at 20,000 Hz. Phase coherent for better imaging. Features 10" long-throw cone woofer; 3"

soft-dome midrange; two 1" soft-dome tweeters. FR 40-20,000 Hz ± 3 dB; min power 25 W/rms; max power 200 W/rms; sens 90 dB SPL/W/m; imp 8 ohms. 12.68" w x 35.83" h x 15.81" d; 66 lb $1,450/pr

SNELL ACOUSTICS

Type A/III 4-Way Speaker
Floor-standing acoustic-suspension speaker with curved baffle to eliminate diffraction, mechanically isolated midrange enclosure, floor-loaded woofer, and rear-loaded supertweeter for accurate room response. Hand-adjustment of crossover values for specific drivers assures acoustic performance virtually identical to reference speaker. Features 12" high-power long-excursion mass-loaded mechanically isolated cone woofer; 5" mechanically-isolated cone midrange; 1" individually adjusted controlled-dispersion dome tweeter; 0.75" low-mass ferrofluid-cooled dome supertweeter. Dual gold-plated inputs allow biwiring or biamping with or without electronic crossover. FR 24-26,000 Hz ± 3 dB, 38-18,000 Hz ± 1 dB; power range 80-400 W rms; imp 4 ohms. Hand-sanded, hand-rubbed matching oak or walnut veneers. 23.5" w x 50.75" h x 14" d; 148 lb.
Oak $4,680/pr
Walnut $4,490/pr

Type C-i 4-Way Speaker
Floor-standing acoustic-suspension sloped mirror-imaged speaker with midrange and tweeter baffle and rear-loaded supertweeter for optimum room response and flat early-arrival sound. Hand-adjusted crossover values for specific drivers assures acoustic performance virtually identical to reference speaker. Features 10" mass-loaded dynamically balanced long-throw high-power woofer; 5" cone midrange; 0.75" low-mass polymer-dome tweeter; 0.75" low-mass polymer-dome supertweeter. Dual gold-plated inputs for biwiring or biamping with or without electronic crossover. Hand-sanded hand-rubbed matched oak or walnut veneers. FR 24-20,000 Hz ± 3 dB; power range 80-400 W rms; sens 86 dB SPL/W/m; imp 8 ohms. 44" h x 14.75" w x 12.75" d. Oak$1,800/pr
Walnut $1,890/pr

Type E/II 3-Way Speaker
Floor-standing bass-reflex speaker with 8" polymer-treated woofer, 1" soft-dome tweeter, and ultra-low-mass 0.75" ferrofluid-cooled rear-loaded dome supertweeter designed for flat early-arrival of sound and accuracy of listening room response. Hand-adjusted crossover for specific drivers assures acoustic performance virtually identical to reference speaker. Dual gold-plated inputs allow biwiring or biamping. Features rear-loaded port for optimim low-frequency room loading. Hand-sanded, hand-rubbed matching oak or walnut veneers. FR 39-22,000 Hz ± 1.75 dB; imp 8 ohms; sens 93 dB SPL/W/m; power range 15-150 W rms. 33" h x 14" w x 11" d. Oak $960/pr
Walnut $990/pr

Type Q 2-Way Speaker
Bookshelf speaker designed for stand placement. Each speaker is individually adjusted to match reference speaker within fraction of dB. Features 6.5" polypropylene cone woofer; 1" rear-firing textile-dome tweeter; flush grille to eliminate diffraction. Crossover frequency 2,200 Hz. Hnad-sanded and rubbed matched pairs in oak or walnut veneers. 10.5" w x 15.5" h x 6.75" d$780/pr
Type Q Stand. Speaker stand designed for use with Type Q speakers. Can be mass loaded with sand or lead and incorporate spikes on the bottom. Oak or walnut veneer. 32" h..... $120/pr

Type J/II 2-Way Speaker
Bookshelf bass-reflex speaker designed to maximize accuracy of early arrival sound and listening room response. Hand-adjustment of crossover values for specific drivers assures acoustic performance virtually identical to reference speaker. Features 8" polymer-treated curvalinear cone woofer; 1" soft-dome tweeter; dual gold-plated inputs for optional biwiring and biamping. Hand-sanded, hand-rubbed oak or walnut veneers. Sens 92 dB SPL/W/m; power rnage 15- 150 W rms; FR 49-22,000 Hz ± 2 dB; imp 8 ohms. 23" h x 13" w x 10" d; 38 lb. Oak $650/pr
Walnut $680/pr
Type J Stand. Speaker stand designed for use with Type J speakers. Can be mass loaded with sand or lead and incorporate spikes on the bottom. Oak or walnut veneer..... $98/pr

Type K 2-Way Speaker
Bookshelf acoustic-suspension peaker with 8" polymer-treated curvalinear cone woofer and 0.75" ferrofluid-cooled soft-dome tweeter. Designed for accuracy of both early-arrival sound and listen-room power response. Hand-adjusted crossover values for specific drivers assures acoustic performance virtually identical to reference speaker. Dual inputs for optional biwiring or biamping. Oak, walnut, or black veneers. Imp 8 ohms; sens 90 dB SPL/W/m; power range 10- 100 W rms. 18" h x 11" w x 9" d. Oak.... $430/pr
Walnut $450/pr
Type K Stand. Speaker stand designed for Type K speakers. Oak or walnut veneer $98/pr

SONAB by AUDIOSOURCE

OA-52 2-Way Speaker
Bass-reflex (tuned to 30 Hz) speaker with 7" woofer and 1" dome tweeter. FR 27-20,000 Hz ± 3 dB; sens 89 dB SPL/W/m; imp 8 ohms; 16.06" x 20.75" x 14.5"; 43.5 lb ea; rosewood or walnut veneers $1,700/pr

OA-51 2-Way Speaker
Bass-reflex (tuned to 38 Hz) speaker with 7" woofer and 1" dome tweeter. FR 32-20,000 Hz ± 3 dB; sens 88 dB SPL/W/m; imp 8 ohms. 16.94" x 11.88" x 10.88"; 28.5 lb ea; rosewood or walnut veneers $1,000/pr

OA-50 2-Way Speaker
Bass-reflex (tuned to 30 Hz) speaker with 6.5" woofer and 1" dome tweeter. FR 28-20,000 Hz ± 3 dB; sens 89 dB SPL/W/m; imp 8 ohms; 14.5" x 18.31" x 12.44"; 33.5 lb; walnut, black, and oak veneers $800

SONOGRAPHE BY CONRAD-JOHNSON

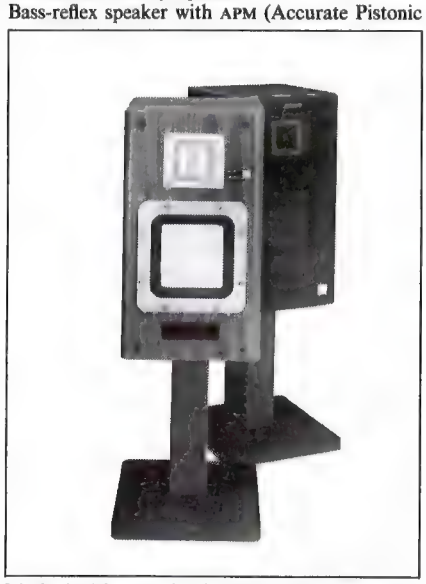
SL 21 Mini-Monitor Satellite Speaker
Vented; 6.5" polyproylene woofer; 1" dome tweeter; golden oak cabinet with brown grille. FR 52-20,000 Hz ± 2 dB; power range 10-80 W; sens 90 dB SPL/W/m; imp 8 ohms; 10.5" w x 14.5" h x 10.5" d..... $695/pr

SW 1000 Stereo Subwoofer
2 side-firing magnetically shielded 10" woofers in golden oak cabinet. FR 25-110 Hz ± 2 dB; power range 10-200 W; sens 90 dB SPL/W/m; imp 8 ohms; 36" w x 19.5" h x 18" d $849/ea
SW 500. Same as SW 1000 except mono, with 1 10" woofer; 18" x 19.5" x 18" $595/ea

SONY

APM-66ES 3-Way Speaker
Bass-reflex speaker with APM (Accurate Pistonic Motion) driver technology that incorporates light, rigid, flat-diaphragm deisgn. Features 66 sq-in APM woofer; 7.4 sq-in APM midrange; 1.4 sq-in APM tweeter; built-in circuit breaker for tweeter protection; heavy-duty cabinet construction with rounded edges. Includes speaker cord. FR 30-30,000 Hz; sens 89 dB SPL/W/m; power capacity 100 W nominal, 200 W peak; nominal imp 6 ohms; crossover frequencies 600 and 4,500 Hz. 15" w x 26" h x 14.38" d $1,100/pr

APM-22ES 2-Way Speaker
Bass-reflex speaker with APM (Accurate Pistonic



Motion) driver technology that incorporates a light, rigid, flat-diaphragm design. Features 45 sq-in APM woofer; 1.4 sq-in APM tweeter; circuit breaker for tweeter protection; heavy-duty cabi-

net construction with rounded edges. Includes speaker cord. FR 40-20,000 Hz; sens 88 dB SPL/W/m; power capacity 80 W nominal, 160 W peak; nominal imp 6 ohms; crossover frequency 2,000 Hz. 11.5" w x 20.38" h x 12.62" d$500/pr

SOTA INDUSTRIES

Simile 2-Way Speaker
2-way slot-loaded speaker with passive radiator. 7" woofer, 1" tweeter. FR 45-22,000 Hz −3 dB; sens 91 dB W/m; crossover, staggered ploes, bass filter at 1,000 Hz, high-pass filter at 3,000 Hz; 16.25" h x 12" w x 11.5" d at base; top 9" w x 7" d; cherry finish $1,295
Ebony, rosewood $1,495

SOUND ASSOCIATES

Enigma Dipole Subwoofer
Free-standing enclosureless single-source moving-coil subwoofer with electronic crossovers and all cables. Features fail-safe over-excursion protection device; 2 self-contained signal generators; active 3rd-order (18 dB/octave) electronic crossovers with FET/polystyrene highpass and FET/polycarbonate lowpass design; straight-through (no switch contacts or controls) highpass and gold Tiffany input and output jacks; internal-system polarity testing; 1" solid rock-maple speaker frame; front-panel switch for before/after comparing; optional 450-W MOSFET drive amp. Min power 50 W; max power 600 W continuous, 1,200 W pulses; sens 88 dB SPL/W/m at 50 Hz; imp 6 ohms min. Solid exotic hardwood finish. Without amp ..... $2,495 ea

SOUND DYNAMICS

1500 Concert Monitor
Computer-tuned 2-way bass-reflex, mirror-imaged pairs with matched parts. 1" horn-loaded soft-dome tweeter with free-floating dome suspension; 15" woofer with high-gauss linear forced motor and epoxy potting. FR 28-23,000 Hz ± 3 dB; sens 102 dB SPL/W/m; min power 20 W; max power 250 W; imp 8 ohms. 34.75" x 18" x 16"; 90 lbs ea; walnut grain vinyl; base attached $900/pr

700 Concert Monitor
Computer-tuned 2-way bass-reflex mirror-imaged pairs with matched parts. 1" horn-loaded soft-dome tweeter with free-floating suspension; 12" woofer with high-gauss linear forced motor and epoxy potting. FR 32-23,000 Hz ± 3 dB; sens 101 dB SPL/W/m; min power 15 W; max power 200 W; nominal impedance 8 ohms. 27.75" x 14.36" x 12"; 45 lbs ea; walnut grain vinyl; with 10" stands $700/pr

500 Concert Monitor
Computer-tuned 2-way bass-reflex mirror-imaged pairs with matched parts. 1" horn-loaded soft-dome tweeter with free-floating suspension; 10" high-gauss plastic-coated woofer. FR 34-23,000 Hz ± 3 dB; sens 98.5 dB SPL/W/m; min power 10 W; max power 200 W; imp 8 ohms. 23.36" x 12.12" x 11.88"; 38 lbs each; walnut grain vinyl; with 10" stands $500/pr

100 Concert Monitor
Computer-tuned 2-way bass-reflex mirror-imaged pairs with matched parts. 1" horn-loaded soft-dome tweeter with free-floating suspension; 6" high-gauss plastic-coated woofer. FR 38-23,000 Hz ± 3 dB; sens 96 dB SPL/W/m; min power 5 W; max power 150 W; imp 8 ohms. 16.75" x 9" x 9.5"; 20 lbs each; walnut grain vinyl; with 26" stands $300/pr

100S Mk II Bookshelf Speaker
Bass-reflex speaker with 6.5" polypropylene cone woofer and 1" dome tweeter. FR 50-20,000 Hz @3 dB; power range 10-70 W rms; sens 93 dB SPL/W/m; imp 8 ohms; walnut or black vinyl; 20 lbs each; 9.5" W x 15.9" H x 9.25" D$250/pr

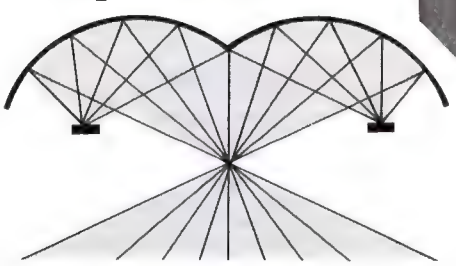
SPECTRUM LOUDSPEAKERS

Model 410 2-Way Speaker
Floor-standing Thiele-aligned bass-reflex speaker with plastic-impregnated 10" composite matrix cone woofer; 1" dome tweeter with acoustic imp transformer. FR 18-22,000 Hz; min power 30 W rms; max power 250 W rms; sens 89 dB SPL/W/m. Natural oak or walnut finish. 14.5" w x 38.5" h x 11.75" d; 59 lbs $749/pr

208A Stand-Mount Speaker
Thiele-optimized bass-reflex speaker designed for floor placement on special stands. 8" cone woofer; 1.5" cone tweeter; 0.5" aluminum dome tweeter; finished in walnut vinyl. Power range 10-100 W; FR 38-20,000 ± 3 dB; sens 91 dB SPL/W/m; 33 lb ea; 14.5" w x 25.5" h x 10.5" d .. $395/pr
208AB. Black, pebble-grain vinyl $395/pr
208AO. Oak veneer $495/pr
Black lacquered stands $59/pr

108A Bookshelf Speaker
Theile-optimized bass-reflex speaker. Features 8" cone woofer; 1.5" cone tweeter with aluminum dome tweeter. FR 48-20,000 Hz ± 4 dB; min

More than just a loudspeaker... a complete musical experience.



Many speakers offer a reasonable illusion of simple left-right stereo. And some can also provide well-balanced, full-range sound. But the new SL-100 loudspeaker system from Signet goes a significant step further. It reaches beyond the speakers' physical location to precisely recreate the spatial dimensions of the original recording.

This three-dimensional accuracy is achieved by a patented breakthrough in directivity control: the Ferrallipse Acoustic Lens.* A remarkable dual-ellipsoid sonic reflector, it was originally presented to the scientific community at the Audio Engineering Society Convention on October 14, 1985. A reprint of the AES paper is available on written request. The Signet SL-100 loudspeaker is its first commercial audio application.

The Ferrallipse Acoustic Lens combines and focuses the output of two precision 1" high frequency transducers to achieve truly uniform 120° dispersion coupled with uncommonly high power handling capacity.

Before you select a speaker system, visit your Signet dealer. Bring your most demanding analog or digital recordings, and your memories of how music *really* sounds. Then sit down, relax, and close your eyes. You'll be transported by a remarkably convincing sonic illusion. The new Definitive Image Loudspeaker, only from Signet.

*Ferrallipse® is a registered trademark of Phase Coherent Audio, Inc.

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CIRCLE NO. 1 ON READER SERVICE CARD

power 10 W, max 100 W; sens 92 dB SPL/W/m; imp 8 ohms; furniture-grade walnut-vinyl finish; 30 lbs/pr; 11.5" w x 14.5" h x 9.0" d.. $249/pr
108AB. Black pebble-grain vinyl $249/pr
108AO. Oak veneer $319/pr

SPICA

Angelus Floor-Standing Speaker
Mirror imaged speaker system with 8" plastic cone bass/mid driver, 1" soft dome tweeter, computer optimized crossover, built in adjustable spikes. FR 45-17,500 Hz ± 3 dB (90-15,000 Hz ± 1.5 dB); crossover 3,400 Hz (−6 dB); recommended power 50-200 W; imp 8 ohms: 21" w x 46" h x 10.25" d; 57 lb; walnut finish.. $975/pr
oak finish $900/pr

TC-50 Bookshelf Speaker
Acoustic-suspension bookshelf speaker with triangular shape allowing system to be within 15° of absolute phase from 350-5,000 Hz. Features 6" cone woofer, 1" dome tweeter. FR 58-14,000 Hz ± 3 dB; power range 25-50 W, 100 W peak; sens 83 dB SPL/W/m; imp 4 ohms; 13" w x 15.55" h x 11.75" d; 21 lb/ea. Oak or walnut veneer$450/pr

Servo Subwoofer
Floor-standing sealed-box subwoofer with servo amplifier. Features 8" with 1" peak-to-peak excursion woofer; 50 W rms min amp; servo feedback system; crossover. System resonance/Q 30 Hz, total Q 0.5; low freq extension −3 dB at 25 Hz; input imp 110 kilohms open, 10 kilohms 1 input shorted. 17.5" w x 14.5" h x 15.88 d; 47 lb; oak or walnut veneer..... $595/ea

SPL

All SPL speakers have dome tweeters, nominal impedance of 8 ohms, with minimum impedance of 6 ohms, in black-ash vinyl with black knit grilles.

4000 Bass-Reflex Speaker
2 10" woofers; 1" tweeter; crossover at 2,200 Hz. FR 25-22,000 Hz ± 3 dB; sens 98 dB SPL/W/m; power range 20-150 W; 43" x 13" x 16"; 65 lb each..... $900/pr

3000 Bass-Reflex Speaker
2 8" woofers; 1" tweeter; crossover at 2,200 Hz. FR 30-22,000 Hz ± 3 dB; sens 96.6 dB SPL/W/m; power range 15-125 W; 37" x 12" x 16"; 52 lb each..... $700/pr

2000 Passive Radiator Speaker
8" woofer; 1" tweeter; crossover at 2,200 Hz. FR 35-22,000 Hz ± 3 dB; sens 95 dB SPL/W/m; power range 10-100 W; 33" x 12" x 9"; 33 lb each..... $500/pr

1000 Bass-Reflex Speaker
2 5.25" woofers; 0.75" tweeter; crossover at 3,000 Hz. FR 40-20,000 Hz ± 3 dB; sens 90 dB SPL/W/m; power range 10-75 W; 21" x 10" x 12"; 26 lb each..... $400/pr

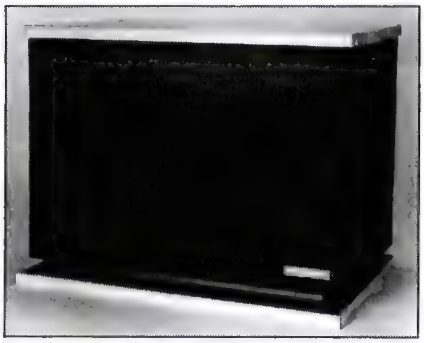
STILLWATER DESIGNS

Hideaways Surround Sound Speaker
Behind-the-couch ultra slim surround sound speakers designed for use with any surround sound decoder. 1" dome tweeter; 8" polypropylene woofer; 10" passive radiator; power range 10-100 W/ch; imp 8 ohms; crossover 3,000 Hz; 17" h x 30" w x 5.25" d (bottom) x 4" d (top)$470/pr

SUMO

Samson Bass-Reflex Subwoofer
Floor-standing subwoofer with 15" composite-cone woofer, 18.62-lb magnet assembly, 4" edgewound copper voice coil; symmetrical magnetic-field motor structure for driver. Features built-in 1,000-W PWM digital-switching amp. Solid 1" butcher-block oak top. FR 20-120 Hz ± 1 dB: max power 1,000 W; sens 91 dB SPL/W/m; imp 8 ohms. 27.5" w x 22" h x 18" d; 100 lb ..... $1,249 ea
Without built-in amp ..... $649 ea

Opus Two 2-Way Speaker
Floor-standing acoustic-suspension speaker with 6.5" treated-cone woofer, 1" composite-dome tweeter with copper-clad aluminum voice coil. Features symmetrical magnetic-field woofer design with copper-clad pole piece for reduced 2nd-



order harmonic distortion; imp-matching conjugate crossover network with extremely low group delay (± 0.2 ms from 100-20,000 Hz); solid-oak end caps. FR 42-24,000 Hz +0, −3 dB min power 35 W rms; max power 250 W rms; sens 85 dB SPL/W/m; imp 4 ohms. Oak or piano-finish black. 10.5" w x 39" h x 5" d; 20 lb... $699/pr
Opus Three. Bookshelf version of Opus Two. 10.25" w x 17.5" h x 9.75" d; 16 lb ... $649/pr

SYMDEX

Epsilon Floor-Standing Speaker
Sealed-box speaker with modular phase-linear crossovers. Features time-aligned drivers; polpropylene capacitors in crossover; 10" cone woofer; 6.5" cone midrange; 1" soft-dome tweeter. Power range 50-250 W; sens 85 dB SPL/W/m; imp 8 ohms; 13" w x 48.5" h x 13" d; 110 lb; black cloth with oak or black top plate; computer-matched pairs $1,795/pr

Sigma S Speaker
Acoustic-suspension speaker with 6.5" bextrene cone woofer and 1" soft cambric dome tweeter. Features physically time-aligned drivers; movable track-mounted tweeter; linear-phase crossover network; new crossover network and internal wire by Randall Research; cut-away cabinetry for min diffraction; 2 sets of input terminals for bi-wiring. FR 60-20,000 Hz ± 1 dB; 10" w x 22" h x 6" d; black-lacquer formica, walnut with black grilles; matched pairs $995/pr

Gamma 2-Way Speaker
Acoustic suspension speaker with 1" cambric soft dome tweeter, 6.5" bextrene sandwhich individually damped woofer. FR 60-20,000 Hz; crossover 1st order , Bi-wire capability; High-Q air-core coils; polypropylene capacitors; noninductive wire wound resistors; 45 lb/ea; 10" w x 6" d x 39" h; base plate measures 13" w x 13" d$995/pr

Omega S Woofer
Specially designed add-on woofer system with 10" bextrene driver for use with Symdex Sigma (above) to form integrated 3-way system with increased dynamic range and power handling; contains passive crossover network for interfacing with the Sigma as well as provision for biamping; spike feet standard; gold pin and socket interconnect to Sigmas (no jumpers); FR to 40 Hz; 13.5" w x 31" h x 13.5" d; sold in computer-matched pairs with same finish options as Sigma$1,495/pr

SYNTHESIS by CONRAD-JOHNSON

Reference Speaker System
5-piece system with 2 subwoofer columns (each with 2 10" woofers), 2 midrange/high-frequency units (with 7" midranges, 1" dome tweeters, leaf supertweeter; golden oak with radiused solid-hardwood edges; active electronic crossover supplied. FR 22-32,000 Hz ± 2 dB; power range 10-250 W; sens 91 dB SPL/W/m; imp 8 ohms; subwoofer columns 14" w x 69" h x 14" d; satellites 10" w x 44" h x 10" d $6,800/system

LM 310 Floor-Standing 3-Way Speaker
10" woofer; 7" midrange; 1" dome tweeter; oak cabinet with radiused solid hardwood edges. FR 25-20,000 Hz ± 2 dB; power range 10-200 W; sensitivity 91 dB SPL/W/m; impedance 8 ohms; 70 lb $2,950/pr

LM 300 Floor-Standing 3-Way Speaker
10" woofer; 7" midrange; 1" dome tweeter; oak finish with cream, brown, or black grille. FR 32-20,000 Hz ± 2 dB; power range 10-100 W; sens 91 dB SPL/W/m; imp 8 ohms; 13.75" w x 44" h x 14.5" d; 70 lb $2,450/pr

LM 260 Floor-Standing 2-Way Speaker
Ported; 8" polypropylene woofer; 1" dome tweeter; oak cabinet with radiused solid-hardwood edges. FR 41-20,000 Hz ± 2 dB; power range 10-100 W; sens 91 dB SPL/W/m; imp 8 ohms; 12 w x 39.5 h x 11 d; 50 lb $1,595/pr

M 250 Floor-Standing 2-Way Speaker
Ported speaker with 8" cone woofer and 1" dome tweeter; oak finish with cream, brown, or black grille. FR 42-20,000 Hz ± 2 dB; power range 10-80 W; sens 91 dB SPL/W/m; imp 8 ohms. 10.63" w x 33.75" h x 11.12" d; 45 lb $1,185/pr

LM 210 Floor-Standing 2-Way Speaker
Ported speaker with 6.5" polypropylene woofer; 1" dome tweeter; oak cabinet with radiused solid-hardwood edges. FR 46-20,000 Hz ± 2 dB; power range 10-80 W; sens 90 dB SPL/W/m; imp 8 ohms; 10.5" w x 33.5" h x 10.5" d $950/pr

TANNOY

Prestige Series
Westminster. Floor-standing dual-concentric speaker with Sync-Source Time Alignment; compound horn enclosure; 15" cone woofer; 2" compression-horn tweeter. FR 18-20,000 Hz ± 2 dB; min power 10 W; max power 200 W; sens 96 dB SPL/W/m; imp 8 ohms. 43" w x 59" h x 28" d; 253 lbs each. Walnut finish..... $10,000/pr
Guy R. Foundation Memory. Floor-standing dual-concentric speaker with Sync-Source Time Alignment; quadruple-ducted-port enclosure; 15" cone woofer; 2" compression-horn tweeter. FR 29-20,000 Hz ± 2 dB; min power 10 W; max power 200 W; sens 95 dB SPL/W/m; imp 8 ohms. 31" w x 43" h x 19" d; 136 lbs each. Walnut finish $6,800/pr
Edinburgh. Floor-standing dual-concentric speaker with Sync-Source Time alignment; distributed port reflex enclosure; 12" cone woofer; 2" compression horn tweeter. FR 30-20,000 Hz ± 2 dB; min power 10 W; max power 200 W; sens 92 dB SPL/W/m; imp 8 ohms. 25.5" w x 40" h x 16.5" d; 97 lbs each; walnut finish ... $5,500/pr
Stirling. Floor-standing dual-concentric speaker with Sync-Source Time Alignment; dual variable-distributed enclosure; 10" cone woofer; 2" compression-horn tweeter. FR 35-20,000 Hz ± 2 dB; min power 10 W; max power 150 W; sens 93 dB SPL/W/m; imp 8 ohms. 20.5" w x 33.5" h x 15" d; 48.5 lbs each. Walnut finish $3,700/pr

Planet Series

Mercury II Gold. Tuned-port bookshelf speaker; 8″ woofer, dome tweeter. FR 52-20,000 Hz ± 3 dB; power range 25-120 W; sens 93 dB SPL/W/m; imp 8 ohms; 9.75″ w x 20″ h s 9″ d; 17 lbs each $850/pr

Mercury Mk II. Similar to Mercury II Gold except 16 lbs each $600/pr

Eclipse. Tuned-port bookshelf speaker; 6.5″ woofer, dome tweeter. FR 53-20,000 Hz ± 3 dB; power range 25-100 W; sens 93 dB SPL/W/m; imp 8 ohms; 9 lbs each $350/pr

Comet Series

Comet II. Tuned-port speaker; 10″ woofer, dome tweeter. FR 45-20,000 Hz ± 3 dB; power range 10-100 W; sens 95 dB SPL/W/m; imp 8 ohms; 26″ × 25″ × 13″; 25 lbs each $450/pr

Comet I. Tuned-port speaker; 8″ woofer, dome tweeter. FR 58-20,000 Hz ± 3 dB; power range 10-100 W; sensitivity 94 dB SPL/W/m; impedance 8 ohms; 10.5″ w x 19″ h x 9″ d; 15 lbs each $300/pr

Comet. Similar to Eclipse (see Planet Series above) except FR 55-20,000 Hz ± 3 dB; sens 94 dB; power range 10-100 W; 8.5 d $249/pr

TECHNICS

SB-M3 3-Way Floor-Standing Speaker
Ported linear-phase honeycomb-disc speaker with mirror-image cabinets; tweeter and midrange attenuators; low-noise 18-dB/octave mid/high crossover; heavy-duty terminals for large-gauge speaker wires; resettable thermal relay protection. 13″ woofer; 3.12″ mid; 1.12″ tweeter. FR 38-35,000 Hz ± 5 dB; max power 200 W music, 100 W DIN; sens 90 dB SPL/W/m; imp 6 ohms; 68.3 lbs; 15.75″ w x 26.36″ h x 13.12″ d .. $1,800/pr

SB-RX50 Bass-Reflex Bookshelf Speaker
2-way speaker with 9.5″ flat-diaphragm woofer and coaxial 1.12″ flat-diaphragm tweeter. Can be placed upright or sideways without affecting sound quality. FR 30-48,000 Hz at 16 dB below average level; max power 160 W music; sens 87 dB SPL/W/m; imp 6 ohms. Wood finish. 11.89″ w x 18.92″ h x 11.09″ d; 36.4 lbs $920/pr

SB-R200 Wall-Mounting 3-Way Speaker
Passive radiator speaker with concentric coaxial honeycomb-disc drivers, passive radiator outside, all in the same plane for phase linearity. Resettable thermal relay protection; internally shielded. Includes wall kit, angled stands, flat speaker cables. 12.5″ passive radiator; woofer; tweeter. FR 65-25,000 Hz ± 5 dB; max power 160 W music, 80 W DIN; imp 8 ohms; available in black; 19.8 lbs; 23.88″ x 14.88″ x 3.75″ d $675/pr

SB-X700A Ported Floor-Standing Speaker
Honeycomb-disc speaker with thermal relay protection; easy connections; 12″ woofer; 3.12″ midrange; 1.12″ tweeter. FR 35-30,000 Hz ± 10 dB; max power 180 W; sens 90 dB SPL/W/m; imp 8 ohms; walnut grain finish; 15.33″ w x 27.33″ h x 12.88″ d; 39.6 lbs $550/pr

SB-X500A Ported Floor-Standing Speaker
Honeycomb-disc speaker with thermal relay protection; easy connections; 10″ woofer; 3.12″ midrange; 1.12″ tweeter. FR 37-30,000 Hz ± 10 dB; max power 130 W; sens 90 dB SPL/W/m; imp 8 ohms; walnut-grain finish; 14.19″ w x 24.81″ h x 12.88″ d; 33 lbs $420/pr

SB-RX30 2-Way Bookshelf Speaker
Bass-reflex speaker with magnetic shielding for placement near TV's. Features 9″ flat-diaphragm woofer and 1.12″ flat-diaphragm coaxial tweeter. FR 44-30,000 Hz at 16 dB below average level; max power 120 W music; sens 88 dB SPL/W/m; imp 6 ohms. Wood finish. 10.56″ w x 14.97″ h x 8.97″ d; 16.5 lbs $420/pr

SB-L95 3-Way Floor-Standing Speaker
Bass-reflex speaker with diffuser-equipped tweeter. Linear-phase design for waveform fidelity. Features 15″ cone woofer; 4″ cone midrange; 2.12″ cone tweeter; aluminum bobbins and heat-resistant voice coils for high power handling; nonresonant fabric dust caps. FR 32-22,000 Hz at 16 dB below average level; max power 200 W music; sens 93 dB SPL/W/m; imp 8 ohms. Simulated woodgrain finish. 17.75″ w x 31.36″ h x 12.92″ d; 35.9 lbs $370/pr

SB-X300A Ported Floor-Standing Speaker
Honeycomb-disc speaker with thermal relay protection; easy connections; 9″ woofer; 2″ midrange; 1.12″ tweeter. FR 45-30,000 Hz ± 10 dB; max power 110 W; sens 90 dB SPL/W/m; imp 8 ohms; walnut-grain finish; 12″ w x 22.44″ h x 10.5″ d; 21 lbs $320/pr

SB-C250 2-Way Compact Speaker
With 7″ crystallized MICA PP-diaphragm cone woofer, 1″ dome tweeter. Max power 100 W music. 9.19″ w x 14.62″ h x 8″ d $300/pr

SB-L75 3-Way Floor-Standing Speaker
Bass-reflex speaker with 12″ woofer; 4″ midrange; 2.12″ tweeter; aluminum bobbins and heat-resistant voice coils for high power handling; nonresonant-fabric dust caps. FR 33-22,000 Hz at 16 dB below average level; max power 150 W music; sens 92 dB SPL/W/m; imp 8 ohms. Simulated woodgrain finish. 14.19″ w x 27.16″ h x 12.84″ d; 23.8 lbs $270/pr

SB-L55 3-Way Floor-Standing Speaker
Bass-reflex speaker with 10″ cone woofer, 4″ cone midrange, 2.12″ cone tweeter. FR 37-22,000 Hz at 16 dB below average level; max power 120 W music; sens 92 dB SPL/W/m; imp 8 ohms. Simulated woodgrain finish. 12.78″ w x 25.59″ h x 10.56″ d; 18.7 lbs $220/pr

SB-L35 2-Way Floor-Standing Speaker
Bass-reflex speaker with 10″ cone woofer, 2.12″ cone tweeter. FR 42-22,000 Hz at 16 dB below average level; max power 100 W music; sens 92 dB SPL/W/m; imp 8 ohms. 12.78″ w x 25.16″ h x 8.97″ d; 16.3 lbs $150/pr

Micro Series

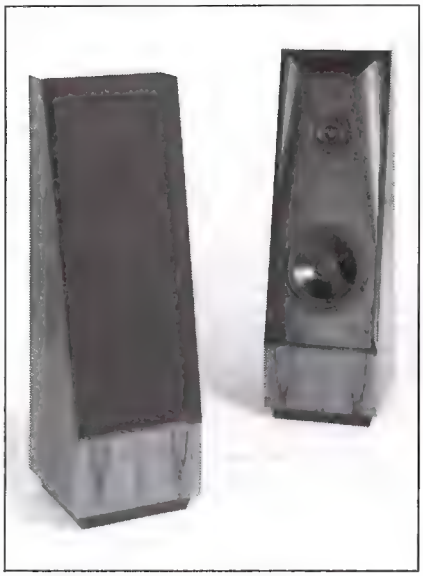
SB-F2MK2 Mini Honeycomb-Disc Speaker
Sealed-box speaker in die-cast metal enclosure. Internally shielded. Resettable thermal relay protection. Protective metal grilles. Switchable 4/8-ohm imp; tripod mountable. Linear-phase design. Contains 5.5″ honeycomb disc woofer; 1.12″ honeycomb disc tweeter. FR 55-33,000 Hz ± 5; max power 100 W music, 50 W DIN; sens 88 dB SPL/W/m; impedance 4/8 ohms; metallic enclosure; 11 lbs; 6.25″ wide x 10.06″ high x 6.75″ deep $370/pr

SB-R100 Passive-Radiator Speaker
Ported speaker for wall mounting. Features 3 concentric coaxial honeycomb-disc drivers, outermost of which is a passive radiator, all in the same plane for phase linearity; resettable thermal relay protection; internally shielded; includes wall-mounting kit and flat speaker cables. Contains 10″ (outer diameter) honeycomb-disc passive radiator; honeycomb-disc woofer; 1 honeycomb-disc midrange; 1 honeycomb-disc tweeter. FR 70-25,000 Hz ± 5 dB; max power 100 W music, 50 W DIN; sens 87 dB SPL/W/m; imp 8 ohms; finished in black; 9.9 lb; 12.36″ w x 12.36″ h x 2.5″ d $325/pr

SB-F1MK2 Mini Honeycomb-Disc Speaker
Sealed-box speaker in die-cast metal enclosure; Internal shielding; resettable thermal relay protection; protective metal grille; switchable 4/8-ohm imp; tripod mountable; linear-phase design to sound especially good while playing Genesis. 4.75″ woofer; 1.12″ tweeter. FR 65-33,000 Hz ± 5 dB; max power 80 W music, 40 W DIN; sens 86 dB sound-pressure level with input of 1 W measured at 1 meter; 5.36″ d $310/pr

THIEL

CS 3.5 Coherent Source Speaker
Floor-standing electronic-bass-equalized speaker with 10″ cone woofer, 4″ cone midrange, and 1″ dome tweeter. Features complete time coherence by sloping baffle; complete phase coherence by synthesized first-order crossover system; 3-dimensional sculpted anti-diffraction baffle; electronic bass system; magnetic distortion-reducing drivers; cast-magnesium driver chassis; polypropylene crossover capacitors; 30-mm thick cabinet panels; real wood veneer. FR 23-20,000 Hz ± 2 dB; Power range 50-250 W rms; sens 89 dB SPL/W/m; imp 4 ohms. Teak, oak, walnut, black, rosewood finishes. 13″ w x 42″ h x 13″ d; 75 lb $2,450/pr



CS 2 Coherent Source Speaker
Floor-standing ported speaker with 8″ cone woofer, 3″ cone midrange, and 1″ dome tweeter. Completely time and phase coherent. Time coherence achieved with sloping baffle; phase coherence achieved with synthesized first-order crossover networks. Features anti-diffraction grille; cast-magnesium driver baskets; polypropylene crossover capacitors. FR 38-20,000 Hz ± 2 dB; power range 50-250 W; sens 87 dB SPL/W/m; imp 6 ohms. Oak, walnut, black, rosewood, teak finishes. 12″ w x 39″ h x 12″ d; 62 lb $1,550/pr

CS1 Coherent Source Speaker
Floor-standing bass-reflex speaker with 7″ cone woofer and 1″ dome tweeter. Features complete time coherence by sloping baffle; complete phase coherence by synthesized first-order crossover system; anti-diffraction grille; polypropylene crossover capacitors; cast-magnesium woofer chassis; 30-mm thick cabinet panels; real wood veneer. Frequency response 56-17,000 Hz ± 2 dB; power range 40-150 W rms; sensitivity 87 dB SPL/W/m; impedance 6 ohms. Teak, oak, walnut, black, or rosewood finishes. 10.5″ wide x 36″ high x 10.5″ deep; 41 lb $950/pr

TRIAD DESIGN

System Two Speaker
Floor-standing acoustic-suspension speaker sys-

tem with time-offset-corrected satellite woofer with 70-W built-in amplifier. Features 6.5" polypropylene cone woofer; 3.5" treated-paper cone midrange; 0.75" Ferrofluid-cooled dome tweeter. FR 35-20,000 Hz ± 4 dB; power range 25-100 W; sens 87 dB SPL/W/m ..... $400 ea

System One Speaker
3-piece all-acoustic-suspension speaker. Features 2 time-offset-corrected satellites; infinitely adjustable volume control; 6.5" polypropylene cone woofer; 3.5" treated-cone midrange; 0.75" Ferrofluid-cooled dome tweeter. FR 45-20,000 Hz ± 4 dB; power range 25-100 W; sens 88 dB SPL/W/m; imp 8 ohms; oak or walnut finish; 5.5" w x 8.5" h x 5" d; 20 lb .... $525/three-piece system

HSW-400 Powered Subwoofer
Floor-standing powered subwoofer with 2 opposing 8" drivers designed to cancel cabinet resonances and couple with floor and back wall when placed near a wall. Features built-in 100-W power amplifier for operation below resonance; two 8" polypropylene cone drivers. FR 44-115 Hz ± 3 dB; power range 5-200 W; imp 1,000 ohms. Walnut or black finish. 24 lb ..... $400 ea

HSS-400 2-Way Speaker
Acoustic-suspension speaker with unique shape to produce proper time-offset correction. Features 8" polypropylene cone woofer; 1" dome tweeter. FR 100-20,000 Hz ± 3 dB; power range 10-100 W; sens 89 dB SPL/W/m; imp 8 ohms; walnut finish; 11" w x 18" h x 8" d; 13 lb $450/pr

HSS-300 Bookshelf Speaker
Acoustic-suspension speaker with time-offset-corrected satellite design to match HSW-300. Triad powered woofer crossover designed for minimum phase shift. Features 6.5" polypropylene cone woofer; 1" dome tweeter. FR 90-20,000 Hz ± 3 dB; power range 10-100 W; sens 89 dB SPL/W/m; imp 8 ohms; oak, walnut finish; 8" w x 12" h x 12" d; 11 lb $350/pr

Bass Base Powered Subwoofer/Cabinet
Floor-standing combination powered woofer and video cabinet. Designed for use with most 25"-27" TV's/monitors and a VCR or VDP. Features 8" polypropylene cone woofer. FR 42-110 Hz ± 3 dB; min power 1 W rms: max power 500 W rms; adjustable sens; imp 8 ohms. Walnut, black, or oak veneer. 30" w x 14" h x 18" d; 50 lb $300 ea
With vinyl finish ..... $260 ea

HSW-300 Powered Subwoofer
Floor-standing acoustic-suspension powered subwoofer augments bass performance of small- to medium-sized speakers. Features 70-W power amplifier for operation below resonant frequency; 8" polypropylene driver. Frequency response 38-100 Hz ± 3 dB; power range 5-200 W; impedance 1,000 ohms; 12" wide x 10" high x 11" deep; oak, walnut finish ..... $250 ea

ULTRALINEAR by ESS

UL-1530 Speaker
Floor-standing 3-way acoustic-suspension speaker protective circuit and resetting circuit breaker. Features 15" cone woofer; 4.5" cone midrange; 2.5" cone tweeter. FR 40-22,000 Hz ± 3 dB; minimum power 10 W rms, max power 125 W rms; sens 92.5 dB SPL/W/m; imp 4 ohms; walnut, grain vinyl finish; 54 lb; 17.75" w x 29.75" h x 14.5" d $358/pr

UL-1230 Speaker
Floor-standing acoustic-suspension speaker with 12" cone woofer, 4.5" cone midrange, and 2.5" cone tweeter. Features protective circuit with resetting circuit breaker. FR 45-22,000 Hz ± 3 dB; minimum power 5 W rms, max power 100 W rms; sens 92.5 dB SPL/W/m; imp 4 ohms; 29 lb; 14.5" w x 26.5" h x 10.75" d $298/pr

UL-1030 Speaker
Floor-standing acoustic-suspension speaker with protective circuit and resetting circuit breaker. Contains 10" cone woofer; 4.5" cone midrange; 2.5" cone tweeter. FR 50-22,000 Hz ± 3 dB; minimum power 5 W rms, max power 100 W rms; sens 92.5 dB SPL/W/m; imp 4 ohms .. $258/pr

UL-208 Speaker
Bookshelf acoustic-suspension speaker. 8" cone woofer and 2.5" cone tweeter. Features protective circuit with resetting circuit breaker. FR 60-22,000 Hz ± 3 dB; minimum power 5 W rms, max power 100 W rms; sens 93 dB SPL/W/m; imp 4 ohms; walnut grain vinyl finish; 18 lb; 10.75" w x 18" h x 8" d $198/pr

VANDERSTEEN AUDIO

Model 4 5-Way Speaker
Floor-standing dynamically aligned sealed 5-way speaker in cast basket. Features two 12" cone subwoofers; 8" cone woofer; 4.5" cone midrange; 1.12" dome tweeter; 0.75" dome supertweeter. FR 26-30,000 Hz ± 2 dB; power range 100-200 W; sens 89 dB SPL/W/m; imp 4 ohms. 18" w x 52" h x 17" d; 150 lb. Available in oak or walnut finishes $3,850/pr

Model 2C 4-Way Speaker
Floor-standing 4-way bi-wired speaker. Features 10" cone subwoofer; 8" cone woofer; 4.5" cone midrange; 1" dome tweeter. FR 29-21,000 Hz ± 2 dB; power range 40-150 W; sens 89 dB SPL/W/m; imp 8 ohms. 16" w x 36" h x 10" d; 60 lb. Oak or walnut $1,125/pr

2W Subwoofer
Floor-standing sealed speaker with three 8" cone woofers. Features 200-W internal amp; cast basket; crossover. FR 26-80 Hz ± 3 dB; sens 82-94 dB SPL/W/m. 18" w x 18" h x 17" d; 80 lb. Oak or walnut $1,200/ea

Model 1B 2-Way Speaker
Floor-standing ported speaker. Features 8" cone woofer; 1" dome tweeter. FR 38-20,000 Hz ± 3 dB; power range 20 W; sens 100 dB SPL/W/m; imp 8 ohms. 12" w x 36" h x 10" d; 50 lb. Oak or walnut $650/pr

VECTOR RESEARCH

All Vector Research speakers feature anti-resonant 1-piece woofer baskets; mid- and high-frequency drivers with ferrofluid damping; soft-dome tweeters; bass-reflex design; 8-ohm impedance; light-oak finish.

VSP-124. Features 12" woofer; 5" midrange; 1" tweeter; 12" passive radiator. Power range 10-250 W; sens 92 dB SPL/W/m. 14.5" w x 39.25" h x 12.5" d $500/pr
VSP-123. Features 12" woofer; 5" midrange; 1" tweeter. Power range 10-250 watts; sensitivity 92 dB SPL/W/m. 14.13" wide x 27.5" high x 11.5" deep $400/pr
VSP-102. Features 10" woofer; 1" tweeter. Power range 10-120 W; sens 90 dB SPL/W/m. 13" w x 27" h x 11" d $300/pr
VSP-82. Features 8" woofer; 2" tweeter. Power range 10-50 W; sens 89 dB SPL/W/m. 10.63" w x 18.75" h x 8.38" d $160/pr

VELODYNE ACOUSTICS

ULD-18 Powered Subwoofer
Floor-standing subwoofer with servo-controlled long-throw 18" driver with 3" peak-to-peak linear travel; 350-W amplifier; electronic crossover set at 85 Hz; level control to match subwoofer output to satellite speaker output; walnut, oak, or black. FR 15-85 Hz ± 3 dB; max undistorted output of 32 Hz 114 dB; cabinet 23" w x 31" h x 22" d; amp 17" w x 3.5" h x 11" d $1,850
ULD-15. As ULD-18 but with 15" driver and 17" w x 22" h x 18" d cabinet, output capability 109 dB at 32 Hz $1,350

ULD-12 Powered Subwoofer
12" servo-controlled down-firing driver; 100-W rms Class B amplifier; passive crossover set at 85 Hz; line- or speaker-level connection; subsonic filter −3 dB at 15 Hz; walnut or oak veneer. FR 15-85 Hz ± 3 dB; output capability 103 dB; cabinet 16" w x 17" h x 21" d; controller 8" w x 1.5" h x 6" d; 32 lb $849

Passive Crossover/Bypass
High-pass crossover with bypass capabilities for ULD-18 or ULD-15. 7" w x 1.5" h x 6" d $100

WHARFEDALE

Diamond V Speaker
2-way bass-reflex speaker with 6" polypropylene woofer, 0.75" tweeter. Frequency response 40-20,000 Hz; imp 8 ohms; power range 15-100 watts program $600/pr

Active Diamond Plus Speaker
Built-in amp with 3rd-generation monolithic devices; on/off switch; volume control; bass reflex; 4.5" woofer, 0.75" tweeter; 5th-order crossover; choice of 6 finishes $500/pr

Diamond IV Speaker
2-way bass-reflex speaker with 4" polypropylene cone woofer, 0.75" tweeter, in black or walnut. FR 40-20,000 Hz; imp 8 ohms; power range 15-100 watts program $600/pr

Diamond III Speaker
2-way speaker with 4.5" woofer, 0.75" tweeter, with 5th-order crossover, in choice of 15 finishes. Frequency response 5-20,000 Hz; output 101 dBA DIN; imp 8 ohms; power range 15-100 watts program $300/pr

WOLCOTT AUDIO

MDF Omnisphere Speaker
Floor-standing bass-reflex speaker uses a single point source of sound with a spherical dispersing surface. A vertically aligned tweeter driving the space between opposing and closely spaced 6" radius sphere and semisphere forms a radial horn which along with 4 quadrant pyramid-mounted woofer/midrange drivers produces single-point-source omnidirectional dispersion. Features four 6.5" polypropylene-cone, butyl-surround woofers; 28 mm soft-dome tweeter; dimmer-controlled lamp in sphere, auto electronic tweeter protection. FR 30-20,000 Hz ± 3 dB; power range 20-250 W rms; sens 90 dB SPL/W/m; imp 6 ohms. Unit on casters (with floor-loaded ports) for easy repositioning after rearranging the furniture. Walnut-veneer finish. 21" w (at base) x 50" h x 21" d (at base); 86 lb $3,750/pr
MDH. Same as MDF except black/grey high-tech finish $2,950/pr

The listings are based on data provided by the manufacturers. For more product information, contact an authorized dealer or the manufacturer directly. Manufacturers' addresses and phone numbers are listed in the directory beginning on page 226.

YAMAHA

Monitor Speakers

NS-1000X 3-Way Speaker
Bookshelf speaker with 12″ pure-fiber cone woofer, 3.5″ beryllium-dome midrange; 1.12″ tweeter. Features in-line configuration with rounded baffle; low-distortion crossover network; midrange and tweeter level controls. Music input power 200 W; sens 90 dB SPL/W/m. 16.75″ w x 27.75″ h x 13.19″ d; 92.4 lb $1,980/pr

NS-1000M 3-Way Speaker
Bookshelf speaker with 12″ woofer, 1.12″ beryllium-dome midrange; 3.5″ tweeter. Features tangential-edge suspension; acoustic-suspension design; acoustic equalizers. Music input power 200 W; sens 90 dB SPL/W/m. 14.75″ w x 26.62″ h x 12.89″ d; 68.2 lbs..... $1,398/pr

NS-500M 3-Way Speaker
Bookshelf speaker with 12″ carbon woofer, 4″ titanium-carbide semi-dome midrange; 1.19″ beryllium-dome tweeter. Features resonance-free enclosure with 3-way mitered construction; low-distortion crossover network; midrange and tweeter level controls. Music input power 200 W; sens 92 dB SPL/W/m. 14.75″ w x 26.75″ h x 12.75″ d; 51.7 lb..... $798/pr

NS-200Ma 3-Way Speaker
Bookshelf speaker with 10″ laminated carbon-fiber/spruce cone woofer, 4″ pure-carbon fiber cone with titanium-carbide dome midrange; 1.19″ titanium-carbide dome tweeter. Midrange and tweeter level controls. Music input power 200 W; sensitivity 90 dB SPL/W/m. 12.62″ wide x 23″ high x 12.88″ deep; 36.3 lb $598/pr

NS-100X 3-Way Speaker
Bookshelf speaker with 9″ pure-carbon-fiber cone woofer, 2.36″ pure-carbon fiber cone with titanium-carbide dome midrange; 1.19″ titanium-carbide dome tweeter. Features field-isolation dual-magnetic system; low-distortion crossover network. Music input power 160 W; sens 91 dB SPL/W/m. 12.25″ w x 20.88″ h x 10.88″ d; 30.8 lb $498/pr

NS-20M 3-Way Speaker
Bookshelf speaker with 9″ pure-spruce cone woofer, 1.88″ titanium-carbide semi-dome tweeter; 1.12″ titanium-carbide semi-dome supertweeter. Features resonance-free enclosure with 3-way mitered construction. Music input power 160 W; sens 91 dB SPL/W/m. 10.62″ w x 16″ h x 10″ d; 20.9 lb $398/pr

NS-10M 2-Way Speaker
Bookshelf speaker with 7″ single-sheet white-cone woofer, 1.36″ soft-dome tweeter, acoustic-suspension enclosure. Music input power 100 W; sens 90 dB SPL/W/m. 8.44″ w x 15″ h x 7.75″ d; 13.2 lb $338/pr

NS-W2 Super Woofer
Supplements bass response for any speaker system. Especially useful for compact speakers. Features 10″ woofer; built-in 40-W amp with volume control; magnetic shielding; easy system connection. 17.81″ w x 14″ h x 12.36″ d; 24.6 lb$249 ea

T-Series Speakers

NS-75T 3-Way Speaker
Bookshelf speaker with 12″ carbon-cone woofer; 2.36″ titanium-carbide-dome midrange; 1.36″ titanium-carbide-dome tweeter. Features heavy-duty cable-connection terminals; American-walnut-veneer cabinet; midrange and tweeter level controls; low-distortion crossover network. Music input power 200 W; sens 90 dB SPL/W/m. 14.36″ w x 26.75″ h x 12.75″ d; 47.3 lb $770/pr

NS-55T 3-Way Speaker
Bookshelf speaker with 10″ spruce-cone woofer; 2.36″ titanium-carbide-dome midrange; 1.36″ titanium-carbide-dome tweeter. Features heavy-duty cable-connection terminals; low-distortion crossover network. Music input power 200 W; sens 89 dB SPL/W/m. 14.12″ w x 24.36″ h x 12.36″ d; 40.7 lb $570/pr

NS-35T 2-Way Speaker
Bookshelf speaker with 10″ spruce-cone woofer; 1.36″ titanium-carbide-dome tweeter. Features heavy-duty cable-connection terminals; low-distortion crossover network. Music input power 180 W; sens 90 dB SPL/W/m. 12.62″ w x 21.75″ h x 12.25″ d; 29.7 lb $390/pr

NS-25T 2-Way Speaker
Bookshelf speaker with 8″ spruce-cone woofer; 1.36″ titanium-carbide-dome tweeter. Features heavy-duty cable-connection terminals; low-distortion crossover network. Music input power 160 W; sens 89 dB SPL/W/m. 11.25″ w x 19.5″ h x 10.12″ d; 21.1 lb..... $270/pr

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HEADPHONES

AIWA

HP-X10 Mini/Phone Headphones
Headphones with flat-formed diaphragm. Features oxygen-free copper litz wire cable; gold-plated duo-fit plugs; samarium-cobalt magnets; low-bass control. FR 5-25,000 Hz ± 3 dB; imp 40 ohms; sens 104 dB SPL with 1 mW input. Includes mini connector; phone connector $95

HP-A606 Mini/Phone Headphones
Features 1.63" driver with 104 dB sens; volume control; mono/stereo switch; mini & standard phone plug included. FR 7-22,000 Hz; imp 40 ohms; max power input 200 mW; cord length 8.2 ft. 3.1 oz (without cord). Available in black or white $40
HP-A202. Similar to above without stereo/mono switch and volume control. FR 10-20 kHz .. $30

AKG

K-340 Stereo Headphones
Two-way electrostatic/dynamic headphones with fixed-charge electrostatic transducer/dynamic MC transducer and passive diaphragms in each ear-

cup. Connects directly to headphone jack of receiver or amp or across speaker output terminals. FR 15-25,000 Hz; SPL 117 dB at 0.1% THD; nominal imp 400 ohms; max continuous input 200 mW/ch at 117 dB SPL; includes 10-ft 4-conductor cables with 3-conductor .25" stereo phone plug; 13.5 oz less cable $215

K-260 Open Air Headphones
Open air, circumaural stereo headphone with dynamic MC transducers. Matches 4-600 ohm outputs. 10 ft cable; standard stereo plug $160

K-240DF Studio Monitor Headphones
Designed with a flat frequency response based on European requirements for reference monitor headphones. FR 20-20,000 Hz ± 2 dB; max input 11 V; Matches 4-600 ohm outputs; max SPL 95 dB with < 0.3% THD; With 2.5 m cable and standard stereo phone plug; 8.5 oz $135

K-240M Free-Field Headphones
Free-field stereo headphones; dynamic MC transducer and 6 passive radiators in each circumaural cup. FR 15-20,000 Hz; imp 600 ohms; max SPL 119 dB at 0.3% THD; supplied with 10-ft 4-conductor cable and .25" phone plug; 7.9 oz .. $110

K145 Headphones
Two-way electrostatic/dynamic semi-open headphones. FR 25-24,000 Hz ± 3 dB; imp 150 ohms; phone connector; 6 oz, cord 10 ft. long $95

K-141 Monitor Headphones
Semi-open stereo dynamic pro monitoring headphones with MC transducers. FR 20-20,000 Hz; max SPL 120 dB at 0.5% THD, imp matches 4-600 ohms; 10-ft 4-conductor cable and standard 3-conductor stereo phone plug; 6.9 oz $85

K135 Headphones
Semi-open dynamic headphones. FR 25-18,000 Hz ± 3 dB; imp 150 ohms; phone connector; 5.6 oz.; cord 10 ft. long $75

K-130 Stereo Headphones
Supra-aural stereo headphones with dynamic MC transducers. FR 20-20,000 Hz; max SPL 119 dB; imp 200 ohms at 0.7% THD; 10-ft 4-conductor cable with 3-conductor stereo phone plug; 4 oz $65

K-45 Stereo Headphones
Ultra-lightweight supra-aural stereo headphones with dynamic MC transducers. FR 30-18,000 Hz; max SPL 117 dB at 0.9% THD; matches 4-200 ohm outputs; 10-ft 4-conductor cable; combination standard/mini stereo phone plug; 2.7 oz $55

K-2 Mini Headphones
2 MC dynamic transducers; adjustable earcups with washable cushions; matches 4-200 ohm outputs; 9 ft cable; combination standard/mini stereo phone plug; 3.2 oz $40

ALARON

RY-245 Stereo Headphones
Headphones for use with portable and home stereos includes 0.25" stereo adaptor plug; 3.5mm mono adaptor plug; 2 extra sets of earpads . $10
RY-242. As above without accessories $5

AUDIO-TECHNICA

AP1400 Open-Back Headphones
Imp 4-16 ohms; FR 20-22,000 Hz; sens 105 dB SPL/W/m; 0.25" phone plug; 10 ft cable; 5.5 oz $60

AP1300 Closed-Back Headphones
Imp 4-16 ohms; FR 20-20,000 Hz; sens 108 dB SPL/W/m; 0.25" phone plug; 10 ft cable; 5.4 oz $50

AP1200 Open-Back Headphones
Imp 4-16 ohms; FR 20-20,000 Hz; sens 90 dB SPL/W/m; 0.25" phone plug; 6 ft cable $40

AZDEN

DSR-38 Lightweight Headphones
Lightweight headphones with cord on one side. Features samarium cobalt magnets; aluminum voice coils; super-thin large diameter diaphragm. FR 16-24,000 Hz ± 3 dB; imp 40 ohms; sens 103 dB SPL with 1-mW input of 1,000 Hz; max power 100 mW; mini and phone connector $100

DSR-50 Open-Air Headphones
Dynamic lighweight headphones with double-dome 40-mm diaphragm made of 16-micron-thick polymer. Features ultr-lightweight copper-clad aluminum-wire voice coils; gold-plated mini plug; gold plated mini to phono plug adaptor; Digital ready. FR 16-25,000 Hz ± 3 dB; imp 300 ohms; max power 200 mW; sens 101 dB at 1 mV/ch at 1,000 Hz; 195 g $80

DSR-48 CD Compatible Headphone
Super lightweight version of DSR 50. sens 97 dB W/m $70

DSR-12 Phone-Plug Headphones
Standard size headphones with extremely lightweight ear units. FR 20-22,000 Hz ± 3 dB; imp 200 ohms; sens 105 dB SPL with 1-mW input of 1,000 Hz; max power 100 mW; phone connector $70

DSR-68 Mini-/Phone-Plug Headphones
Standard small headphones with large diameter diaphragms. FR 20-20,000 Hz ± 3 dB; imp 32 ohms; sens 95 dB SPL with 1-mW input of 1,000 Hz; max power 100 mW; mini and phone connector $60

DSR-88 Micro-Dynamic Headphone
In ear design. Mini to .25" gold plated adaptor. Sens 104 dB W/m; dynamic samarium cobalt speaker unit $45

DSR-64 Mini Headphones/Earphones
Mini headphones that detatch from band to become earphones. FR 30-20,000 Hz ± 3 dB; imp 32 ohms; sens 100 dB SPL with 1-mW input of 1,000 Hz; max power 50 mW; mini connector.... $25

DSR-70 Mini-Plug Headphones
Conventional small headphones with mute switch. FR 40-20,000 Hz ± 3 dB; imp 32 ohms; sens 94 dB SPL with 1-mW input of 1,000 Hz; max power 100 mW; mini connector $20

DSR-69 Anti-Vibration Headphones
Conventional small headphones with anti-vibration system. FR 40-20,000 Hz ± 3 dB; imp 32 ohms; sens 92 dB SPL with 1-mW input of 1,000 Hz; max power 100 mW $15

BANG & OLUFSEN

Form 1 Headphones
Dynamic, semi-open headphones. Features lightweight self-adjusting earpads with tension relief pads to remove pressure from ear. FR 20-20,000 Hz ± 3 dB; imp 35 ohms; mini & phone connector $110
Form 2 Headphones $55

HEAR WHAT YOU'VE BEEN MISSING!
When you hear the fidelity and accuracy of the AKG K 240DF Studio Monitor Headphones, you'll know why it's become a standard for Digital Compact Disc recording engineers and professional musicians around the world.
The K 240DF establishes a uniform sound quality, free from environmental variables. It has been created to meet a recently proposed international standard. It's so smooth and flat IRT (Institute for Broadcast Technology) that AKG engineers use the K 240DF as a reference headphone in developing digital products for recording studios.
Each K 240DF is tested in a diffused sound field to arrive at a headphone design with a flat frequency response (±2dB) and matched sensitivity. This professional headphone is close to perfection—without coloration or distortion—allowing you to enjoy all the advantages of the latest in CD technology. The self-adjusting headband supports circumaural ear cups. Each contains hand selected, large dynamic moving-coil transducers and acoustic filters yielding the ultimate in Digital CD reproduction. Minimum weight is well distributed for maximum comfort over longtime wear.
The AKG K 240DF Studio Monitor Headphone is a total design concept, just right for you to hear what you've been missing!
AKG acoustics
77 Selleck Street
Stamford, CT 06902
K 240DF
Studio-Monitor
© AKG 1986 ® Akustische und Kino-Geräte GmbH, Austria

BEYER DYNAMIC

DT 48A Standard-Reference Headphones
Audiometric-calibration, standard-reference head phones for acoustic measurements. FR 16-20,000 Hz; max power 200 mW $320

DT 48 Headphones
Features removable/replaceable ear cushions and 10-ft coiled cable. FR 16-20,000 Hz ± 2 dB; imp 200 ohms; sens 105 dB SPL with 1-mW input at 1,000 Hz; max power 96.8 mW; phone plug; 14 oz without cord $300

DT 109 Headphones with Microphone
Headphones with dynamic boom microphone for use in live and remote broadcasting. Features rugged modular construction, available with straight or coiled 10-ft cord in numerous mic and headphone impedances, comfortable for extended wearing. FR 30- 20,000 Hz ± 3 dB; imp 400 ohms; sens 94 dB SPL with 1-mW input at 1,000 Hz; max power 1,000 mW; phone plug; 14.5 oz with cord $200

DT 880 Headphones
Semi-open, circumaural headphones with rare-earth magnets. FR 5-25,000 Hz ± 3 dB; imp 600 ohms; sens 94 dB SPL with 1-mW input of 1,000 Hz; max power 100 mW; phone plug; 10' cord length; 7 oz with cord $170
DT 880 Studio. Studio version of the DT 880 where extremely wide frequency response and long wearing comfort is required. FR 5-35,000 Hz ± 3 dB; all other specs same as DT 880 ... $210

DT 990 Dynamic Headphones
Circumaural stereo headphones with very large, low-mass-diaphragm design. Frequency response equalized to diffuse soundfield method. FR 5-35,000 Hz ± 3 dB; imp 600 ohms; max power 100 mW 116 dB SPL; sens 96 dB at 1 mV/ch at 1,000 Hz. Includes 0.25I connector. 8 oz $185

DT 770 Dynamic Headphones
Circumaural stereo headphones with bass-reflex system to improve accuracy and detail of low frequencies. Closed design isolates ambient noise. Frequency response equalized to diffuse soundfield method. Features very large, low-mass- diaphragm design. FR 15-30,000 Hz ± 3 dB; imp 600 ohms; max power 100 mW 116 dB SPL; sens 96 dB at 1 mV/ch at 1,000 Hz. Includes 0.25" connector. 9 oz $175

DT 108 Headphones with Microphone
Combination single-muff headphone with dynamic boom microphone for live and remote broadcasting. Features rugged modular construction, straight or coiled cord with numerous mic and headphone impedances, designed for extended wearing. FR 30-20,000 Hz ± 3 dB; imp 400 ohms standard; sens 94 dB SPL with 1-mW input of 1,000 Hz; max power 1,000 mW; phone plug; cord length 10' coiled or straight; 10.75 oz with cord $170

DT 100 Monitor Headphones
Recording-studio monitor headphones for production and post-production. Features detachable straight or coiled 10' cord; available in numerous impedances, modular construction. FR 30-20,000 Hz ± 3 dB; imp 400 ohms; sens 94 dB SPL with 1-mW input of 1,000 Hz; max power 1,000 mW; phone plug; 12.5 oz with cord $150

DT 96A Multi-Purpose Headphones
Headphones used in interpreting installations at conferences and conventions, listening libraries and language labs. Can be used with or without circumaural ear cushions. Features detachable straight or coiled 10-ft cord. FR 30-17,000 Hz ± 3 dB; imp 400 ohms; sens 94 dB SPL with 1-mW input of 1,000 Hz; max power 360 mW; phone plug; 4 oz without cord $140

DT 102 Single-Muff Headphones
Headphones for broadcast, recording and disco cueing. Features detachable straight or coiled 10-ft cord; available in numerous impedances; modular construction. FR 30-20,000 Hz ± 3 dB; imp 400 ohms; sens 94 dB SPL with 1-mW input at 1,000 Hz; max power 1,000 mW; phone plug; 9 oz without cord $105

DT 550 Lightweight Headphones
Headphones with semi-open, circumaural design. Lightweight, adjustable suspension, 10-ft coiled cord. FR 10-22,000 Hz ± 3 dB; imp 600 ohms; sens 95 dB SPL with 1-mW input at 1,000 Hz; max power 100 mW; phone plug..... $125

DT 220 Headphones
Headphones with extremely lightweight, closed design; wide-band drivers; soft circumaural ear cushions. FR 20-20,000 Hz ± 3 dB; imp 400 ohms; sens 102 dB SPL with 1-mW input at 1,000 Hz; max power 100 mW; phone plug..... $120

DT 330 MK II Semi-Open Headphones
Circumaural headphone with rare-earth magnets. FR 15-18,000 Hz ± 3 dB; imp 40 ohms; sens 85 dB SPL with 1-mW input at 1,000 Hz; max power 100 mW; phone plug; 6.75 oz $80

DT 320 Lightweight Headphones
Headphones with semi-open, circumaural design. FR 30-20,000 Hz ± 3 dB; imp 600 ohms; sens 88 dB SPL with 1-mW input of 1,000 Hz; max power 100 mW; .25" phone plug; 3.75 oz $65

CALRAD ELECTRONICS

15-115 Lightweight Dynamic Headphones
Transducers designed to eliminate breakup and reduce harmonic distortion and phase differences. FR 20-20,000 Hz ± 3 dB; imp 32 ohms; max power 300 mW; sens 98 dB at 1 mV/ch at 1,000 Hz. Includes stereo 0.25" connector and shielded cable. 230 g $165

CARTER-CRAFT

40-416 Mini Headphones
Dynamic headphones features rare-earth magnets; adjustable headband; 7-ft ultra-light, tangle-resistant cord; super-soft ear pads. FR 20-30,000 Hz ± 3 dB; imp 38 ohms. Includes mini and 0.25" connectors. 1.25 oz $36

40-411 Mini Headphones
Features rare-earth magnets; adjustable headband; 5-ft cord; super-soft earpads. FR 30-20,000 Hz ± 3 dB; imp 32 ohms. Includes mini and 0.25" connectors. 12 oz..... $19

40-399 Ultra-Light Headphones
Dynamic, open-air micro-mini headphones with adjustable headband; 4-ft cord; super-soft earpads. Folds up to fit in pocket or purse. FR 20-20,000 Hz ± 3 dB; imp 32 ohms. Includes mini and 0.25" connectors..... $14

40-421 "Pick Pocket" Headphones
Dynamic, open-air mini headphones with 5-ft cord and foam earpads. Folds up to store in cassette-sized case (included). Mini connector. 10 oz..... $11

40-417 Mini Headphones
Dynamic, open-air headphones with 5-ft cord and mini connector. FR 20-20,000 Hz ± 3 dB; imp 32 ohms. 1.5 oz..... $11

40-425 Stereo Earphones
In-ear-type headphones feature 6-ft cord and molded strain reliefs. Imp 8 ohms; max power 300 mW. Includes mini connector..... $8

Replacement Foam Earpads
Replacement earpads for Carter-Craft headphones
40-405. For 40-399 headphones. 2-pair package.....$2.45
40-407. For 40-417 headphones.....$1.65/pr
40-409. Earpads for model 40-411 and 40-416 headphones.....$2.15/pr

DENON

AH-D6 Open-Air Headphones
Digital-ready headphones with foamed mica flat diaphragm, LC-OFC cables/wiring, and phone connector. FR 15-22,000 Hz ± 3 dB; imp 32 ohms; max power 200 mW; sens 98 dB ... $100
AH-D4. Same as AH-D6 except sens 96 dB $80

PRICES LISTED
are manufacturers' suggested retail prices
(also referred to as *list* prices);
actual selling prices are set by individual dealers.
All prices are subject to change without notice.

AH-D3 Headphones
Features high-polymer diaphragm with double-dome construction for improved rigidity and well-damped sound reproduction; LC-OFC voice coil to eliminate distortion; high-energy samarium-cobalt magnet; 1-point cross-support design; OFC cable $60

AH-D1 Headphones
Features high-polymer film diaphragm; copper-clad aluminum wire in voice coil; high-energy samarium-cobalt magnet; 1-point cross-support design; OFC cable $50

FOSTEX

T20 Studio Headphones
Regular Phase system in planar polyester ribbon drivers (diaphragm suspended between opposing-pole magnet assemblies); deposited spiral voice coil; oversize ear pads; adjustable headband; ansiotropic ferrite magnets; diaphragm 1.375"; all parts and assemblies secured by screws. Imp 50 ohms; sens 96 dB with 1 mW; max input 200 mW; max output 119 dB with 200 mW; FR 20-30,000 Hz; 10.6 oz $89
T30 ..... $125
T10 ..... $65

JECKLIN BY ASTATIC

Float II Headphones
Headphone supported by broad band over head and spacer behind ear that keeps headphones from pressing on ear. 2 drivers; dynamic compliance with aperiodic damping. FR 30-20,000 Hz; distortion <0.8%; imp 200 ohms; 385 g; 3-m cable; 6.3-mm plug $125
Float I. Similar to Float II except FR 35-20,000 Hz; distortion <1%; no aperiodic damping . $98

JVC

HA610 Open-Air Stereo Headphones
Lightweight headphones feature moving-coil drivers and a double headband for lightweght comfort. Sens 105 dB at 1 mW; max input 100 mW. 7.1 oz. with cord $50

HACD5 Open-Air Stereo Headphones
Lightweight headphones feature copper-clad aluminum wire voice coils and mini stereo plug with standard 0.25" plug adaptor..... $40

HA510 Open-Air Stereo Headphones
Lightweight headphones feature moving-coil drivers and a double headband for lightweght comfort. Sens 106 dB at 1 mW; max input 100 mW. 7.1 oz. with cord $35

HA410 Open-Air Stereo Headphones
Lightweight headphones feature moving-coil drivers and a double headband for lightweght comfort. Sens 97 dB at 1 mW; max input 100 mW. 5.9 oz. with cord $30

KENWOOD

KH-500 Stereo Headphones
Open-type dynamic headphones with fold-up headband $30

KH-D7 Stereo Headphones
Ultra-lightweight micro headphones with detachable headband $20

KOSS

HV/1A Headphones
High-velocity headphones with low-mass Decilite drivers for 15-30,000 Hz FR ± 3 dB. Distortion 0.5% at 100 dB SPL; sens 0.9 V rms for 100 dB SPL. Acoustical sponge ear cushions; extendable headband with self-adjusting pivoting yokes, soft padded vinyl cover; 10-ft cord; 10.1 oz..... $50

JCK/200-S Cordless Headphones
Dynamic circumaural cordless headphones feature infrared transmitter and AC adaptor. FR 20-20,000 Hz ± 3 dB $160

JCK/100 Cordless Headphones
Infrared cordless design. THD <.25% at 100 dB SPL. 3 oz $130

SST/10 Headphones
Designed for digital A/V equipment. Sens 0.36 V rms at 100 dB SPL $120

Pro/4X Plus Stereo Headphones
Dual-element design combines rare-earth magnet with piezo-electric element. FR 10-40,000 Hz ± 3 dB $90

Pro/4AAA Plus Stereo Headphones
Features extra-large voice coils; oversized diaphram. FR 10-22,000 Hz ± 3 dB $70

SST/7 Headphones
Dynamic circumaural closed stereophone design. Features notch-type headband adjustment; multi-pivoting earcups; volume balance control on coiled cord. FR 15-30,000 Hz ± 3 dB; imp 60 ohms $70

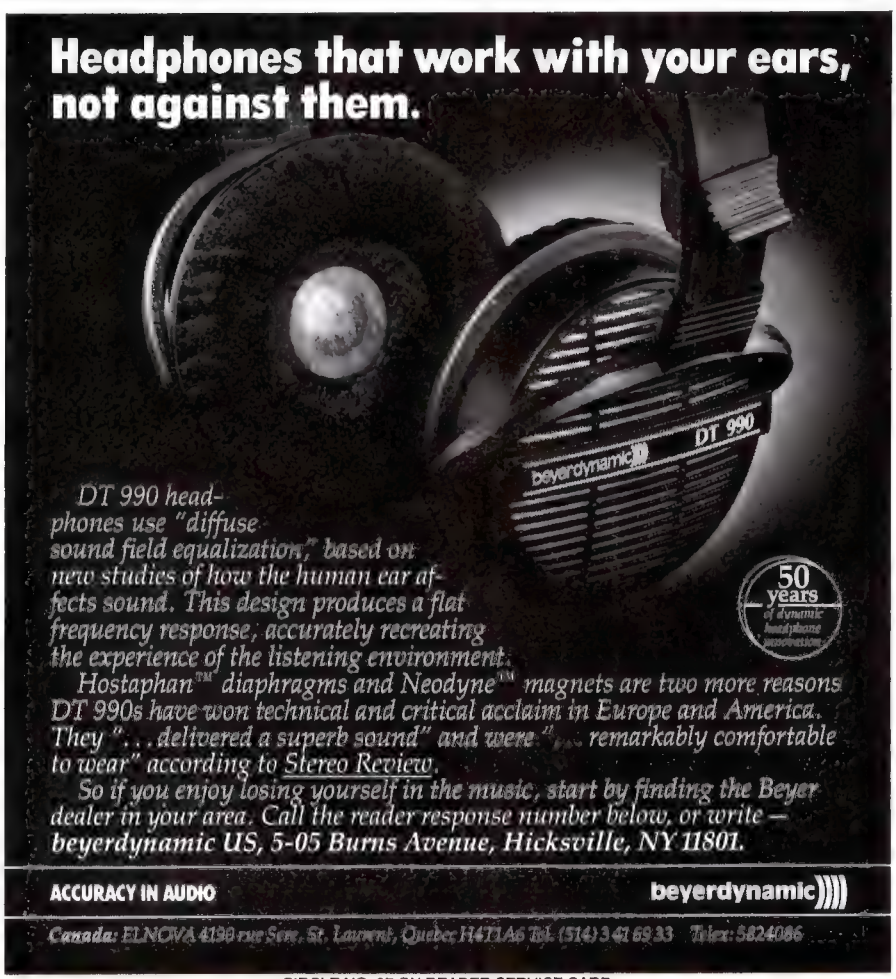
SST/6 Headphones
Dynamic open-air headphones with temporal-pad design and volume balance control on coiled cord. FR 15-20,000 Hz ± 3 db $60

PortaPro Headphones
Supraural folding headphones for high-end portable or home use. Features exclusive Comfort Zone mult-pivoting earcup adjustments. Mini plug & .25" phone plug; 2.5 oz w/cord $50

Porta/Pro Jr. Headphones
THD <.2% at 100 dB SPL 1 kHz $40

K40LC Plus Headphones
Features dual balance controls; volume control. Rated at 100 ohms and 104 dB SPL W/m input $40

SST/5 Headphones
Dynamic headphones with closed circumaral design. Features adjustable leather headband and


Headphones that work with your ears, not against them.
DT 990
beyerdynamic
DT 990 headphones use "diffuse sound field equalization," based on new studies of how the human ear affects sound. This design produces a flat frequency response, accurately recreating the experience of the listening environment.
Hostaphan™ diaphragms and Neodyne™ magnets are two more reasons DT 990s have won technical and critical acclaim in Europe and America. They "...delivered a superb sound" and were "... remarkably comfortable to wear" according to Stereo Review.
So if you enjoy losing yourself in the music, start by finding the Beyer dealer in your area. Call the reader response number below, or write — beyerdynamic US, 5-05 Burns Avenue, Hicksville, NY 11801.
50 years of dynamic headphone innovation
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beyerdynamic
Canada: ELNOVA 4190 rue Sere, St. Laurent, Quebec H4T1A6 Tel. (514) 341 6933 Telex: 5824086
CIRCLE NO. 87 ON READER SERVICE CARD

foam filled ear cushions. FR 20-20,000 Hz ± 3 dB $40

KSP-II Headphones
Portable, collapsible headphones. Features reticulated foam ear cushion; carrying bag; 2 plugs $35

K6X Plus Dynamic Headphones
Lightweight headphones. 100 dB SPL; imp 100 ohms; 6.3 oz $32

SST/4 Headphones
FR 20-20,000 Hz ± 3 dB; imp 35 ohms; sens 100 dB; 6.3 oz $32

KSP Sound Partner Headphones
Featherweight phones for pocket stereo use. Folds into compact size to fit into denim tote bag (supplied), comes with accessory adaptors .. $25

KPL/4 Headphones
Hear-through headphones for stereo, VCR or TV. Features self-adjusting slide bars; washable cushions; mini-mono adaptor; spare cushions. FR 18-20,000 Hz ± dB; imp 100 ohms; 8-ft cord .. $25

KPL/3 Headphones
Portable headphones. Features volume and balance controls, screw-on adaptor; spare cushions. FR 20-20,000 Hz ± 3 dB; imp 35 ohms, mini connector, phone connector $20

KFF/300 Headphones
Blue/yellow lightweight stereeophones with dual balance controls, includes headband cover, spare large cushions, and .25" home adapter. Sens 100 dB; imp 35 ohms; 3 os $20

KMP/800 Headphones
Sidewinder earbud design with ultra-thin diaphram, spare cushions, home adaptor. Distortion <1%; imp 32 ohms; 0.75 os $20

KFF/200 Headphones
Dynamic opean-ear headphones with L-type plug. Features covered headband; extra cushions; and spare adaptor. FR 20-20,000 Hz ± 3 dB; imp 35 ohms; sens 100 dB; 2.5 oz $16

KPL/2 Headphones
Features adjustable headband; pivoting earcups; spare cushions; .25" adaptor. Imp 35 ohms; 2.5 oz $15

KMP/600 Headphones
Detachable headband and sidewinder earbud design. Includes hone adapter. THD <1%;0.75 oz $15

KMP/400 Headphones
Protective carrying case. THD <1%;0.5 oz .. $12

KPL/1 Headphones
Pivoting earcups ultra lightweight, .25" adapter. 2 oz $10

KFF/100 Headphones
Red/blue/yellow lightweight stereophones. Includes .25" adaptor. Sens 100 dB; imp 35 ohms; 2 oz $10

The listings are based on data provided by the manufacturers. For more product information, contact an authorized dealer or the manufacturer directly. Manufacturers' addresses and phone numbers are listed in the directory beginning on page 226.

LASER BY SWIRE MAGNETICS

1270-9513 Lightweight Headphones
Replacement stereo headphones packed in clear plastic box $5.49

MEMOREX BY MEMTEK

Sonic-Lite Headphones

SL-88 Deluxe Stereo Earphones
Dynamic wear-in-ear-type headphones with rare-earth samarium-cobalt magnets. Contoured for max comfort. Features gold-plated connectors. Includes mini connector and mini-to-0.25" adapter. FR 20-20,000 Hz ± 3 dB; imp 16 ohms; max power 30 mW; sens 106 dB at 1 mV/ch at 1,000 Hz. 2 oz $15

SL-90 Deluxe Stereo Headphones
Dynamic headphones with rare-earth samarium-cobalt magnets. Human engineered curves, contours, and angles for max comfort. Digital ready. Features gold-plated connectors. Includes mini connector and mini-to-0.25" adapter. FR 20-20,000 Hz ± 3 dB; imp 32 ohms; max power 100 mW; sens 100 dB at 1 mV/ch at 1,000 Hz . $15

SL-60 Stereo Headphones
Dynamic lightweight headphones with adjustable headband and super-soft ear cushions. Includes 45" cord, mini plug, mini-to-0.25" adapter. FR 50-18,000 Hz ± 3; imp 32 ohms; max power 100 mW; sens 92 dB at 1 mV/ch at 1,000 Hz .. $10

SL-40 Stereo Headphones
Dynamic lightweight headphones with adjustable headband, and flexible pivot earpiece mounts. Includes 45" cord, mini plug, mini-to-0.25" adapter. FR 50-16,000 Hz ± 3; imp 32 ohms; max power 50 mW; sens 80 dB at 1 mV/ch at 1,000 Hz. 1.5 oz $5

NADY SYSTEMS

IRH-210 Stereo Headphones
Cordless stereo headphone. Infrared transmission 35 ft range. Separate volume controls for each ear. FR 45-15,000 Hz ± 3 dB $100

NAKAMICHI

SP-7 Stereo Headphones
Lightweight stereo headphones provide broad, flat frequency response, extended dynamic range, and minimal distortion. Utilizes 25-micron thick polyester film with 40.5-mm diameter and 18.3-mm voice coil. FR 20-20,000 Hz; imp 45 ohms; max power 100 mW; 3-m cable; standard 0.25" phone plug $80

ONKYO

DP-G4 Circumaural Headphones
Light-contact-over-the-ear headphones with soft leatherette adjustable headband. Features high efficiency and wide dynamic range for digital sources. FR 10-20,000 Hz ± 3 dB; imp 32 ohms; max power 150 mW; sens 111 dB at 1 mV/ch at 1,000 Hz. 0.25" connector. 5 oz $52

DP-L2X Dynamic Headphones
Supra-aural headphones with 28mm tangential-edge diaphragm for improved deep bass response. Special earpad adjusts to individual ear contours. Mini connector and mini-to-0.25" adaptor included. FR 15-20,000 Hz ± 3 dB; imp 30 ohms; max power 100 mW; sens 110 dB at 1 mV/ch at 1,000 Hz. 2 oz $44

DP-L1X Dynamic Headphones
Supra-aural lightweight folding headphones with volume control and stereo/mono selector. Mini connector and mini-to-0.25" adaptor included. FR 20-20,000 Hz ± 3 dB; imp 28 ohms; sens 102 dB at 1 mV/ch at 1,000 Hz. 2 oz $40

DP-S1X In-Ear Dynamic Headphones
Ultra-mini stereo earphones with folding headband. Mini connector, mini-to-0.25" adaptor, and compact carrying case included. FR 50-20,000 Hz ± 3 dB; imp 18 ohms; max power 30 mW; sens 102 dB at 1 mV/ch at 1,000 Hz. 5 g $36

ORA ELECTRONICS

Studio Spec Brand

GH111G Stereo Headphones
Lightweight, compact headphones with gold-plated plug and 27-mm ferrite drivers $3.60

PANASONIC

EAH-D8 Rare-Earth Headphones
Rare-earth magnets for high output and increased efficiency; mini-jack adapter. Earpads designed for sophistication and comfort. FR 15-25,000 Hz ± 3 dB; imp 45 ohms; max power 102 dB SPL. 1.36" driver; cord 8.23 ft; 3 oz $60

EAH-Z70 Dual-Driver Earphones
With tweeter for highs and woofer for lows; gold-plated plug and gold-plated adaptor for full-size phone jacks. Max input 50 mV (123 dB); imp 28 ohms; sens 106 dB SPL/mW; 4-ft straight cord $50

EAH-S35 1.3-Oz Headphones
In black, blue, or red, with adaptor for full-size phone jacks. Max input 100 mV (118 dB); imp 40 ohms; sens 96 dB SPL/mW; 4.9-ft straight cord $25

EAH-Z31 0.15-Oz Earphones
In black, pink, red, gray, or white; with case. Max input 50 mV (123 dB); imp 16 ohms; sens 106 dB SPL/mW; 4-ft straight cord $25

EAH-Z28 0.19-Oz Earphones
In black or pink, with case. Max input 40 mV (122 dB); imp 32 ohms; sens 106 dB SPL/mW; 4-ft straight cord $16

EAH-Z9 Folding Headphones
Adjustable headband. Max input 40 mV (117 dB); imp 16 ohms; sens 102 dB SPL/mW; 3.6-ft straight cord; 0.71-oz $15

EAH-S18 1.3-Oz Headphones
Adjustable headband; soft ear cushions; adaptor for full-size phone jacks. Max input 100 mV (111 dB); imp 16 ohms; sens 91 dB SPL/mW; 4-ft straight cord $10

EAH-Z17 0.16-Oz Earphones
In black, pink, or blue, with matching cassette-style case. Max input 50 mV (119 dB); imp 26 ohms; sens 102 dB SPL/mW; 3.3-ft straight cord $10

PICKERING

CD-4 Headphones
For digital or analog playback, lightweight. FR 20-20,000 Hz; sens 110 dB W/m. 7.5 ft cord with standard gold plated plug $60

CD-2 Stereo Headphones
Headphone for digital or analog playback. Samarium Cobalt drivers, lightweight. FR 20-20,000 Hz; 7.5 ft cord with standard stereo plug; Y type 4-conductor cord $45

CD-1 Elliptical Shaped Headphones
Intermediate size eliptical shaped headphone. FR

HEADPHONES

20-20,000 Hz; sens 105 dB; 7 ft Y cord with gold plated mini stereo plug and standard stereo adaptor $25

CD-6 Stereo Headphones
Lightweight headphone with dynamic high velocity element with polyester film diaphram and Samarium cobalt magnets. FR 20-20,000 Hz; sens 110 dB W/m; 7.5 ft single side entry cord with gold plated stereo plug and mini stereo adaptor $80

Featherfone 108 Headphones
Stereo headphones fit directly in ears; volume control. Frequency response 20-20,000 Hz; sensitivity 105 dB; SPL 0.25 V at 1,000 Hz for each channel $35
Featherfone 106. Similar to above except FR 20-18,000 hz $30

Featherfone 104 Headphones
Designed for in ear wearing. FR 20-20,000 Hz; sens 98 dB; $23
Featherfone 102. Similar to above except sens is 92 dB $21

OA-101P Featherfone Stereo Headphones
Lightweight open-air stereo headphones. Feature lightweight headband; polyurethane foam cushion; 6-ft Y-type cord; FR 20-18,000 Hz; distortion <0.5% at 100 dB SPL, 1,000 Hz; sens 100 dB SPL 0.25 V input at 1,000 Hz/ch; max input power 0.05 W; 2.0 oz $26

OA-99P Featherfone Headphones
Ultralight intra ear stereo headphones. FR 20-20,000 Hz; sensitivity 105 dB; 5 ft cord with mini stereo plug and mini to standard 0.25" stereo adaptor $8

OA-88 Featherfone Headphones
Headphones with convertible Mini-Featherfone for headband or in-ear wear. High-velocity samarium-cobalt drivers; ultra-lightweight adjustable headband with replaceable foam cushions. FR 20-20,000 Hz; distortion <0.5% at 100 dB SPL; imp 32 ohms at 1,000 Hz; sens 98 dB SPL with 1-mW input at 1,000 Hz; max power 0.05 mW; mini stereo plug; 4-ft cord; .5 oz without cord $7

OA-66P Stereo Headphones
Open-air headphones with strontium-ferrite magnets. Features ultra-lightweight adjustable headband with replaceable polyurethane foam ear cushions. FR 20-20,000 Hz; distortion less than 0.5%; imp 32 ohms; sens 92 dB SPL with 1-mW input at 1,000 Hz; mini plug; .25" adaptor plug; 1.1 oz without cord $6

PIONEER

SE-V100 Audio/Video Headphones
Features low-loss 24.6-ft OFC cable with gold-plated jack; titanium drivers; linear-suspension-edge copper-clad aluminum wire coils; lightweight design. FR 5-50,000 Hz; sens 110 SPL/W/m; imp 32 ohms $99

SE-50D(BK) Dynamic Headphones
Features dome driver with titanium diaphragm; 10-ft Y-type straight cord; mini and standard plug. FR 3-50,000 Hz; sens 108 dB SPL/W/m; imp 32 ohms $60

SE-205 Dynamic Headphones
Features adjustable headband; 8-ft cord. FR 20-20,000 Hz $33

SE-30D Headphones
Features titanium-dome drivers; linear suspension edge; copper-clad aluminum-wire voice coils; 8-ft low-loss OFC litz-wire cord; mini and standard plugs. FR 10-25,000 Hz; sens 103 SPL/W/m; imp 40 ohms $31

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TOMORROW'S HEADPHONES TODAY

Digital music has challenged the engineering capabilities of the world's leading headphone manufacturers.

AZDEN CORPORATION (A leader in transducer technology for 35 years) proudly introduces 3 new models designed to provide maximum performance for Compact Disc, Digital Audio Tape, and standard analog record/tape formats.

Utilizing the latest state-of-the-art designs, materials, and manufacturing techniques, Azden delivers great performance and maximum comfort.

DSR-50 (Full-sized headphone)	**$79.95**
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QUASAR

SV406 Headphones
Deluxe headphones with adaptor plug for use with 0.25" jacks $50

REALISTIC

PRO-60 Acoustic Resistance Headphones
Variable-density ear cushions, 10-ft coiled cord with 0.25" phone plug. THD <0.5% $50

LV-10 High-Velocity Stereo Headphones
Vented-back headphones with 2" dynamic elements. THD 0.5%; acoustic foam earpieces; soft vinyl-covered headband with self-adjusting yokes; 10-ft coiled cord, 0.25" plug $40

Nova-65 Adjustable Headphones
Side-mounted controls for volume and balance; vinyl drivers; foam-filled ear cushions; padded headband; 10-ft cord with 0.25" plug $32

Nova-55 Dynamic Headphones
Samarium-cobalt magnets; mini plug. FR 20-20,000 Hz ± 3 dB; imp 3.2-600 ohms; max power 5 V. 3 oz $30

Nova-40 Adjustable Headphones
Stereo headphones with 3.5" dynamic drivers. Imp 4-16 ohms; soft cushion earcups; padded adjustable headband; 10-ft coiled cord, 0.25" plug $25

Nova-45 Lightweight Stereo Headphones
0.25" plug adaptor and rare-earth magnets. FR 20-20,000 Hz ± 10 dB; imp 32 ohms; max power 40 mW; 6.5-ft cord; 3.3 oz with cord $25

Nova-52 Folding Stereo Headphones
Rare-earth magnets, 6.5-ft cord with 0.12" mini plug. 3 oz $20

Nova-10 Stereo Headphones
2" drivers; adjustable vinyl headband with cushioned earpads. 6.5-ft cord, 0.25" plug $15
Nova-16. Similar to Nova-10 except has separate Glide Path level controls $20

Nova-37 Dynamic Headphones
Folding headband; samarium-cobalt magnets; mini plug $15

Nova-35 Stereo Headphones
Micro stereo headphones with foam earpads, adjustable headband, 5-ft cord with 0.12" plug. <3 oz $14

Micro-in-Ear Stereo Headphones
Stereo headphones designed to slip into outer ear. 0.6 oz $13

Nova-33 Lightweight Headphones
Portable headphones. 1.25 oz; foam ear cushions; 0.12" plug; 4-ft cord $10

Nova 36 Lightweight Headphones
Fold-up headphones with foam pads; flexible 4-ft, 2-oz cord with 0.12" mini plug $7

Nova-34 Lightweight Headphones
Imp 32 ohms; FR 40-20,000 Hz ± 3 dB; max power 100 mW; mini plug; 4-ft cord; 3 oz with cord $5

SANSUI

SS-L55 Dynamic Stereo Headphones
Isolation-free dynamic stereo headphones with around-the-ear design and 1.56" drivers. Imp 100 ohms at 1,000 Hz; FR 20-20,000 Hz; max input power 500 mW; sens 104 dB/mW at 500 Hz; 2-m cord; 4.8 oz without cord $42

SS-L33 Dynamic Stereo Headphones
Isolation-free, around-the-ear stereo headphones with 1.56" drivers. Imp 60 ohms; FR 20-20,000 Hz; max input power 500 mW; sens 104 dB/mW; 2-m cord; 4.4 oz without cord $33

MS-33 Dynamic Stereo Headphones
Lightweight on-the-ear mini dynamic stereo headphones fitted with mini stereo plug, with adapter for use with home audio equipment. Imp 30 ohms; FR 35-20,000 Hz; max input power 100 mW; sens 97 dB/mW; 2.5-m cord; 1.8 oz without cord $23

SENNHEISER

HD 250 Headphones
Closed cushion headphone with resonance free

transmission. FR 16-25,000 Hz $199

HD 230 Headphones
Lightweight headphones with separate woofers and tweeters. Features acoustically sealed ear cushions; adjustable headband. FR 10-30,000 Hz ± 3 dB; distortion less than or equal to 1%; imp 600 ohms; phone connector; cord 10 ft long; 9.2 oz without cord $199

HD 540 Reference Headphones
Open-air dynamic headphones with integral acoustical silk dampening diaphragm. sens 94 dB; imp 600 ohms $179

HD 430 Headphones
Open-Air headphones with circumaural ear cushions that rest around the ear. Features replaceable 10-ft stranded-steel cable with phone plug; adjustable headband. FR 16-20,000 Hz ± 3 dB; imp 600 ohms $155

HDI 2 Wireless Headphones
Stereo headphones with separate transmitter that plugs into headphone jack of any receiver or amp for wireless transmission. Individual volume controls; rechargeable battery. 2.9 ozs $149
SI 2. Wireless transmitter $145

HD 425 Headphones
Open-Air headphones with circumaural ear cushions that rest around the ear. Features replaceable 10-ft cable with phone plug; adjustable headband. FR 18-20,000 Hz ± 3 dB; distortion less than 1%; imp 600 ohms; sens 94 dB with 1 mW input; 5.5 oz without cord $135

HD 222 Headphones
Closed-ear light-weight headphones with replaceable 10-ft stranded-steel cable with phone plug; adjustable headband. FR 20-20,000 Hz ± 3 dB; imp 600 ohms $119

HD 420SL Stereo Headphones
Open-Aire headphones with fabric-covered ear cushions and adjustable headband suspension strap. FR 18-20,000 Hz ± 3 dB; sens 94 dB with 1 mW input, nominal SPL at 1,000 Hz; THD 1.0%; imp 600 ohms; 10-ft stranded-steed cable with phone plug; 4 oz $99

HD 414SL Stereo Headphones
Headphones with replaceable 10-ft stranded-steel cable with phone plug and adjustable headband. FR 20-20,000 Hz ± 3 dB; imp 600 ohms $89

HD 50 Mini Headphones
All user repalceable parts. FR 20-20,000 Hz, 3 ft cable w/mini to phone plug adaptor $75

HD 410SL Stereo Headphones
Lightweight Open-Aire headphones with replaceable 10-ft stranded-steel cable with phone plug. FR 20-18,000 Hz ± 3 dB; imp 600 ohms $65

PD 100 Mini Headphones
All user replaceable parts. FR 23-18,500 Hz, 3ft cable w/ mini to phone plug adaptor $58

HD 40 Lightweight Headphones
Open-Aire stereo headphones with 10-ft stranded-steel cable with mini to phone plug adaptor. FR 20-18,000 Hz ± 3 dB $49

SIGNET

TK44 Circumaural Headphones
Electret-condenser headphones with adaptor box. FR 10-22,500 Hz ± 3 dB; imp 4-16 ohms; sens 100 dB at 1 V/ch at 1,000 Hz $300

TK-22 Headphones
Moving-coil dynamic headphones. Features diaphragm 20 microns thick, polyester dome. Voice coil of 40-micron silver-copper wire; self-supporting. Fabric-covered foam earpads; soft suede-finish inner headband. FR 20-20,000 Hz ± 3 dB; imp 4-16 ohms; phone connector; cord 11.5 ft. long $130

TK-21 Dynamic Headphones
Full-size lightweight open-ball moving-coil dynamic headphones. Features 8.2-ft cord; mini connector; phone connector adaptor. FR 20-20,000 Hz ± 3 dB; sens 98 dB SPL (1 mW input); imp 4-16 ohms. 99 g $80

TK-20 Headphones
Moving-coil dynamic headphones. Features fully rotating yoke and pivot combination for wearing comfort. Folds compactly into belt pouch (included). FR 25-20,000 Hz ± 3 dB; imp 4-16 ohms; mini connector; phone adapter. THD 0.5% at 100 dB SPL. Cord 4.9 ft long $60

TK-11 Headphones
Moving-coil dynamic headphones. Features ball-joint pivot for adjustment. FR 30-20,000 Hz ± 3 dB; imp 4-16 ohms; mini connector; phone adapter; 1.9 oz; cord 4.9 ft long $40

SONY

MDR-CD6 Dynamic Headphones
Supra-aural headphones with sealed-ear design; 30mm dome driver unit; spring-loaded soft-touch eliptical earpads; one-sided cord; independent left/right side click-sliders; stereo Unimatch plug; glod-coated double-layer high-molecule film diaphragm and copper-clad aluminum voice coil. Imp 45 ohms at 1,000 Hz; sens 110 dB/mW; rated power 0.1 W; power handling 0.5 W; FR 2-25,000 Hz; cord length 9.8', 3.9 oz $120

HEADPHONES

MDR-V6 Dynamic Headphones
Closed-ear-type monitor headphones with folding-type compact headband; 40mm driver unit; oval earpads; stereo Unimatch plug; OFC litz cord. Imp 63 ohms; sens 106 dB/mW; rated power 0.3 W; power handling 1 W; FR 5-30,000 Hz. Includes soft case $100

MDR-V4 Dynamic Headphones
Closed-ear-type monitor headphones with rugged folding headband; 30mm driver unit; one-sided cord; stereo Unimatch plug; OFC litz cord. Imp 45 ohms; sens 104 dB/mW; rated power 0.1 W; power handling capacity 0.5W; FR 10-25,000 Hz. Includes case $80
MDR-V2. Similar in design to MDR-V4 ... $50
MDR-V1. Similar in design to MDR-V4 ... $30

MDR-S505 Dynamic Headphones
Large-size open-air-type headphones with volume and tone controls; large-size earpads; 30mm dome drive units; one-sided cord; stereo Unimatch plug. Imp 45 ohms; sens 104 dB/mW; rated power 0.04 W; power handling 0.1 W; FR 15-24,000 Hz; cord length 9' 10"; 2.1 oz $70

MDR-A60 Dynamic Headphones
Verical in-the-ear-type headphones with Sony's Acoustic Turbo-Circuit for power bass and smooth high frequencies; 16mm sapphire driver units; natura-form bio-tech curved headband design with 3-point folding mechanism; OFC litz wire; stereo Unimatch plug. Imp 18 ohms at 1,000 Hz; sens 108 dB/mW; rated power 0.03 W; power handling 0.05 W; FR 10-25,000 Hz; cord length 47.25"; 0.7 oz $70

MDR-M33A Dynamic Headphones
Features soft-touch elliptical earpads; one-sided cord; stereo Unimatch plug; 23mm dome driver unit. Imp 25 ohms at 1,000 Hz; sens 100 dB/mW; rated power 0.05 W; power handling 0.1 W; FR 15-14,000 Hz; cord length 9.8'; 1.7 oz $60

MDR-S303 Dynamic Headphones
Large-size open-air-type headphones with large-size earpads; 30mm dome drive units; one-sided cord; stereo Unimatch plug. Imp 45 ohms; sens 104 dB/mW; rated power 0.04 W; power handling 0.1 W; FR 15-22,000 Hz; cord length 9' 10"; 1.9 oz $50

MDR-E272 Dynamic Headphones
In-the-ear-type headphones with gold-plated L-shaped mini plug; Sony's Acoustic Turbo-Circuit. Imp 13.5 ohms at 1,000 Hz; sens 104 dB/mW; FR 18-22,000 Hz; cord length 39.38"; 0.17 oz .. $40

MDR-S101 Dynamic Headphones
Large-size open-air-type headphones with 23mm dome driver units; large-size earpads; stereo Unimatch plug adaptor. Imp 32 ohms; sens 98 dB/mW; rated power 0.04 W; power handling 0.1 W; FR 20-20,000 Hz; cord length 6.5'; 1.9 oz... $30

STANTON

SRS-265 Stereo Headphones
Audiophile/professional headphone with deluxe dynamic driver. Features patented independently suspended earcup design for wearer comfort. FR 5-22,000 Hz; sens 96 dB at 1 mW; imp 100 ohms; max input 100 mW; distortion <0.5% at 1,000 Hz; 0.25" plug. 8.6 oz $125

SRS-245 Stereo Headphones
Semi-enclosed stereo headphone with deluxe dynamic driver. Features adjustable ratchet-type headband with specially engineered spring suspension; circumaural design. FR 10-22,000 Hz; sens 94 dB at 1 mW; imp 100 ohms; max input 100 mW; distortion <0.5% at 1,000 Hz; 10 ft flat 4-conductor cord with 0.25" plug. 8.6 oz .. $100

SRS-225 Stereo Headphones
Semi-enclosed stereo headphone with high-velocity moving-coil driver. Features adjustable ratchet-type headband with specially engineered spring suspension; circumaural design. FR 10-22,000 Hz; sens 94 dB at 1 mW; imp 100 ohms; max input 100 mW; distortion <0.5% at 1,000 Hz; 10 ft cord with 0.25" plug. 8.6 oz $75

Stanton SRS-265 Series Headphone

SRS-215 Stereo Headphones
Semi-enclosed stereo headphone with high-velocity moving-coil driver. Features adjustable ratchet-type headband with specially engineered spring suspension; circumaural design. FR 20-22,000 Hz; sensitivity 98 dB at 1 mW; impedance 50 ohms; maximum input 100 mW; distortion <0.5% at 1,000 Hz; 10-foot dual-conductor cord with mini stereo plug and standard 0.25" phono-type screw on adaptor. 8.6 oz $65

ST-PRO Stereo Headphones
Features closed-cup design; high-velocity samarium cobalt driver with mylar diaphragm; adjustable headband; soft vinyl isolation cushions. Sens 100 dB with 0.3V input; max power input 250 mW/ch; imp 100 ohms at 1,000 Hz. Includes 7 ft coil cord with molded strain relief and 0.25" stereo plug $55

35M/HB Dynamic Headphone
Single-cup open-air headphone with headband intended for disco use. Features high-velocity driver; samarium cobalt magnet; 0.25" connector. FR 20-20,000 Hz ± 3 dB; imp 100 ohms; max power 0.25 W; sens 110 dB at 1 mW/ch at 1,000 Hz. 3.8 oz $55

35M/SR Disco Headphone
Shoulder-rest single-cup headphone designed for DJ use. Features samarium cobalt magnet; soft foam-filled, leather-like ear cushion. Frequency response 20-22,000 Hz; impedance 100 ohms; maximum input 0.25 W; 3.8 oz $50

ST-4 Open-Air Headphones
Features high-velocity samarium cobalt driver with mylar diaphragm; adjustable rachet style headband; soft vinyl isolation cushions. Sens 96 dB with 0.25 V input; max power 250 mW/ch; imp 60 ohms at 1,000 Hz. Includes 7 ft coil cord with molded strain relief and 0.25" stereo plug $50

ST-3 Open-Air Headphones
Dynamic full-range stereo headphones with full-isolation cushions, 2" high-velocity drivers, samarium cobalt magnets, mini to 0.25" adapter. CD ready. FR 20-20,000 Hz ± 3 dB; imp 32 ohms; max power 100 mW; sens 112 dB at 1 mW/ch at 1,000 Hz. 5 oz $40

ST-2 Lightweight Headphones
CD-ready full-range stereo headphones with 1.5" high-velocity drivers, adjustable black plastic headband; 7.5-ft Y-type 4-conductor cord, 0.25" to mini adapter. FR 20-20,000 Hz ± 3 dB; imp 32 ohms; max power 100 mW; sens 100 dB at 1 mW/ch at 1,000 Hz. 5 oz $30

ST-1 Compact Lightweight Headphones
CD-ready home or portable stereo headphones with 1.36" high-velocity drivers; adjustable black headband; 7.5-ft Y-type 4-conductor cord, 0.25" stereo plug; soft black-vinyl-covered foam ear cushions. FR 25-20,000 Hz ± 3 dB; imp 32 ohms; max power 100 mW; sens 110 dB at 1 mW/ch at 1,000 Hz; distortion <0.5% at 110 dB. 5 oz $25

Microwafer 14 Lighweight Headphones
Headphones with adjustable folding headband. Features blue dual-density ear cushions; dynamic high-velocity elements with polyester-film diaphragms and samarium cobalt magnets; mini connector. FR 10-22,000 Hz ± 3 dB; imp 32 ohms; sens 100 dB SPL with 0.25 volt input; max power 0.1 W; distortion 0.5% at 100 dB SPL. 5-ft Y-type cord; 1 oz without cord $40

STAX

SR-Lambda/SRM-1 Mk2 Headphones
Panoramic-imaging professional earspeaker system with Class-A direct-drive amp. Connects to pre-out or record outputs. FR DC-20,000 Hz ± 1 dB; imp 50,000 ohms; sens 102 dB SPL with 1-mW input of 1,000 Hz; min power 0.00005 mW; cord length 7 ft; 15.1 oz with cord $999
SRE-16 Extension Cord. Five-meter cord for SR-Lambda $89

SR-Lambda/SRD-7 Professional
Panoramic-imaging professional electrostatic earspeaker system with energizing adaptor that connects to amp outputs. Features circumaural design. FR 8-20,000 Hz ± 1 dB; imp 8 ohms; sens 102 dB SPL with 1 W input of 1,000 Hz; max power 10,000 mW; cord lenght 7 ft; 15.1 oz with cord $599

SR-Sigma Headphones
Panoramic-imaging electrostatic earspeaker system with energizing adapter. FR 30-35,000 Hz ± 2 dB; imp 8 ohms; sens 94 dB SPL with 1-mW input of 1,000 Hz; max power 10,000 mW; special connector; 16.4 oz with cord $599

SR-Lambda Headphones
Panoramic-imaging electrostatic earspeaker system with energizing adapter. FR 8-35,000 Hz ± 2 dB; imp 8 ohms; sens 102 dB SPL with 1-mW input of 1,000 Hz; max power 10,000 mW; special connector; 15.1 oz with cord $489

SR-Gamma Headphones
Circumambient imaging electrostatic earspeakers system with energizing adapter. FR 10-35,000 Hz; max output 109 dB $349

SR-5/N Headphones
Electrostatic earspeaker system with energizing adapter. FR 25-25,000 Hz ± 2 dB; imp 8 ohms; sens 97 dB SPL with 1-mW input of 1,000 Hz; max power 10,000 mW; special connector; cord length 7 ft; 13.9 oz with cord $249

SR-84 Lambda Jr. Headphones
Electret earspeaker system with energizing adapter. FR 20-20,000 Hz ± 2 dB; imp 8 ohms; sens 95 dB SPL with 1-mW input of 1,000 Hz; max power 10,000 mW; special connector; cord length 7 ft; 7.5 oz with cord $199

SR-34 Headphones
Electret earspeaker system with energizing adapt-

er. FR 25-20,000 Hz ± 2 dB; imp 8 ohms; sens 95 dB SPL with 1-mW input of 1,000 Hz; max power 10,000 mW; special connector; cord length 7 ft; 8 oz with cord $129

Accessories

SRD-X Adaptor for Stax Headphones
Portable adaptor that allows Stax electrostatic and electret earspeakers to be connected to a headphone jack. Operates on batteries or AC power adaptor. Features variable gain control. FR 25-25,000 Hz ± 3 dB; imp 300 ohms; max power 0.03 mW $159

SRE-15/N Extension Cord
5-meter extension cord for use with all Stax earspeakers $35

TEAC

HP-402 Stereo Headphones
Deluxe lightweight stereo headphones with soft vinyl foam cushions. Imp 38 ohms; includes 0.25" plug adaptor $35

HP-302 Mini Stereo Headphones
Samarium-cobalt magnet. Imp 32 ohms; includes 0.25" plug adaptor and 2 extra earpads $26

HP-308 Stereo Headphones
Lightweight stereo headphones with standard 0.25" plug adaptor and 2 sets of replacement earpads. Impedance 32 ohms $25

HP-206 Stereo Headphones
Lightweight headphones with volume control; samarium-cobalt magnet; 0.25" plug adaptor; 2 extra earpads. Imp 32 ohms..... $22

HP-202W Stereo Headphones
Lightweight headphones with 0.25" plug adaptor and 2 extra earpads. Imp 32 ohms. White .. $18
HP-202B. Blue $18
HP-202R. Red $18

HP-102 Stereo Headphones
Imp 32 ohms $13

TECHNICS

EAH-T10 Compact Headphones
Lightweight headphones with flat planar transducers. Frequency response 15-20,000 Hz ± 7 dB; total-harmonic-distortion 0.2% (100 dB SPL, 1,000 Hz); sensitivity 100 dB SPL (1 mW input); max input 300 mW; 3.53 oz; includes mini and standard phone plugs $65

EAH-T6 Lightweight Headphones
Compact headphones with stereo mini plug and standard stereo headphone plug adapter. FR 20-20,000 Hz ± 3 dB; imp 40 ohms at 1,000 Hz; max power 100 mW; 1.25 oz $40

UHER AMERICA

W765A Stereo Headphones
Dynamic stereo headphones with one active, 6 auxiliary membranes per system; half-open design. FR 16-20,000 Hz; SPL 94 dB; imp 600 ohms; nominal loading capacity 200 mW; distortion 1.0%; automatic strap adjustment; gimballed earcups; 3-m cable; 330 g $90

W 766A Dynamic Headphones
Lightweight (2.2 oz) mono/stereo headphones with 8-ft coiled cord. FR 20-20,000 Hz; imp 200 ohms at 1,000 Hz; lightweight adjustable headband $90

YAMAHA

YHD-1 Foldable Headphones
Orthodynamic headphones. FR 20-20,000 Hz ± 3 dB; imp 125 ohms; max power 1,000 mW; 100 dB/mW (109 dB/V); mini connector; phone connector $75

YHD-2 Headphones
Similar to YHD-1 except with 99 dB/V; imp 125 ohms $55
YHD-3. Similar to YHD-1 except with 97-dB output $30

YHL-003 Headphones
Lightweight fashion-design headphones with mini plug and adaptor for phone plug. FR 20-20,000 Hz ± 3 dB; imp 150 ohms; sens 103 dB SPL with 1-mW in put of 1,000 Hz; max power 100 mW; 6 ft. cord; 2.8/1.8 oz with/without cord $50
YHL-006. Similar to YHL-003 except with smaller diaphragm $40

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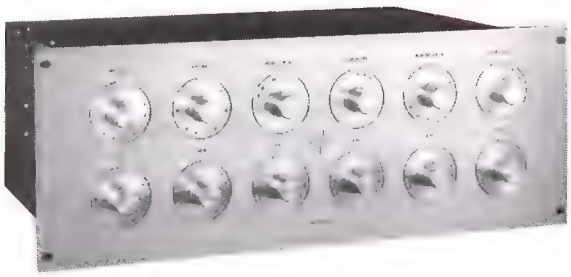


ACCUPHASE BY MADRIGAL

G-18 33-Band Graphic Equalizer
Third-octave stereo graphic equalizer with separate power supply for each ch; fully balanced inputs and outputs; 66 individual filter amps, each with discrete components and operating with constant Q throughout their range of 4.3; champagne-gold or black-anodized finish. S/N 110 dB. 17.5" w x 6.31" h x 14.81" d; 26.4 lb $3,650

F15L Electronic Crossover
For stereo bi- or triamplification; plug-in boards select crossover frequencies and slopes; 0.5-dB-per-step level controls from 0 dB to 20.5 dB for passbands. S/N 100 dB; 18.3 lb; 17.5" w x 4.4" h x 14.7" d $2,425

ACE AUDIO

6000-6 Transient-Perfect Electronic Crossover
Designed for optimum transient performance at any crossover frequency; passes perfect square waves. With 1 frequency module (interchangeable), 6 dB/octave slope, dual level controls. Distortion 0.002%; noise <95 dB; 2.25" h x 6" w x 4.36" d $175

6500-DSB Electronic Crossover
Designed to operate with any pair of stereo subwoofers to provide extra bass below 100 Hz; twin level controls; Bessel filters provide optimum slope and improved group delay; any frequency available from 40-200 Hz; slope 12 dB/octave, distortion typically 0.002% at 2 V output; includes 1 plug-in frequency module $156
6500-SF. Similar to model 6500-DSB but also contains a built-in subsonic filter (18 dB/octave below 15 Hz) $181

5000-6 Subwoofer Electronic Crossover
For mono subwoofers; crossover frequency 100 Hz (other frequency optional: extra charge $16). Provides 18 dB/octave slope on subwoofer; 6 dB/octave on satellites for smoothest overall response. More than 1 subwoofer can be connected; built-in bridging amp; 1% precision components $161
5000-6-SF. Similar to 5000-6 but also contains built-in subsonic filter (18 dB/octave below 15 Hz) $186

5000 Subwoofer Electronic Crossover
Designed to operate with subwoofers or mini speaker systems. Features level control, defeat switch. Crossover 18 dB/octave at 100 Hz; noise −90 dB; distortion 0.025% at 2 V out, 0.01% typically; 2.25" h x 6" w x 4.36" d $161
Kit $120
5000-SF. Similar to 5000 but includes subsonic filter, 18 dB/oct below 15 Hz $186

6000 Electronic Crossover
Designed for bi- or tri- (with 2 6000s) amplifying. Features plug-in frequency module; built-in power supply; 15 crossover frequencies, 200-10,000 Hz at 12-dB/octave; 2 tweeter level controls. THD and IMD 0.002%; input imp 220 k/ohms; output imp 100 ohms; hum and noise −90 dB; 6" w x 4.36" d x 2.25" h $156
6000-SF. Similar to model 6000 but also contains a built-in subsonic filter (18 dB/octave below 15 Hz) $181

AUDIO CONTROL

C-101 Series Two Equalizer/Analyzer
Stereo graphic equalizer features 101-LED spectrum analyzer display that operates on various levels; shows controllable peak-reading modes (fast/slow); horizontal LED's indicate SPL; switchable calibration levels from 2/dB/LED (analyzes pink noise and mike) to 4 dB/LED (displays wider dynamic range). Center frequencies 32, 60, 120, 480, 960, 1,920, 3,840, 7,680, and 15,500 Hz; boost/cut range max 15 dB; −1 dB subsonic rolloff at 25 Hz, −3 dB rolloff at 20 Hz, −21 dB rolloff at 10 Hz; variable input level sens with calibration; auto mike/line input switching; pink-noise generator; stereo paired equalizer sliders; 18 dB/octave subsonic filter; phase correlation rumble reducer circuit. FR 3-100,000 Hz ± 0.75 dB; distortion 0.009%; hum and noise −116 dB; 10,000 Hz bandwidth; input/output impedance 100k/150 ohms; 19" wide x 6.5" high x 3.5" deep $429

Ten Plus Series Two Equalizer
Stereo 10-band equalizer with LED indicators in slide controls with warble tone analyzer. Features video sound input and switching; 18 dB/octave infrasonic filter; tape EQ with flashing LED warning indicator; calibrated mike with response curve; sound pressure meter with 0 dB LED. FR 3-100,000 Hz ± 1dB; THD 0.07%; S/N 120 dB $329

Richter Scale Series III Equalizer/Analyzer
Designed to enhance bass response; perfect for integrating subwoofer and satellites, smoothing transition from bass to middle frequencies; combines six-band half-octave bass equalizer, warble tone analyzer, programmable Linkwitz-Riley 24-dB/octave electronic crossover; measurement mike; center frequency slide controls at 22.5, 31.5, 45, 63, 90 and 125 Hz, ± 12 dB; stereo warble tone source adjustable to each center band via rotary knob; −20 to +6 dB lighted meter registering mike input; 18 dB/octave infrasonic filter; source/tape monitoring; equalize program; low-frequency (12 dB/octave at 200 Hz) summing circuit for rumble reduction; frequency point programmable (24 dB/octave) electronic crossover circuit for subwoofer and biamplification modes; mono and inverted mono outputs for bridging; gold jacks. FR 3-100,000 Hz ± 1dB; THD 0.005%; input imp 100,000 ohms; output imp 150 ohms, S/N 120 dB $349

Phase-Coupled Activator
Detects and digitally reconstructs fundamental musical frequencies attenuated in the recording processes. Proprietary intelligent circuitry discriminates between sound sources, passing some (like most voices) without adding spurious lows, while restoring missing musical fundamentals. Features in/out switch; subsonic filter 18 dB/oct; programmable electronic crossover; crossover output level; tape monitor; detection ratio sensitivity adjustment; rack mount. FR 5-100,000 Hz ± 3 dB; S/N −118 dB; THD 0.005%; IMD 0.01%. 17" w x 2.75" h x 8.5" d; 5 lbs . . . $259

Octave Plus Equalizer
Unit combines 10-band octave graphic equalizer, warble tone generator/analyzer, measurement mike. Features center frequencies 31.5, 63, 125, 250, 500, 1k, 2k, 4k, 8k, 17k Hz; max 12 dB boost or cut; stereo warble tone source adjustable to each band center via rotary switch. 2-position range buttons; −20 to +3 dB lighted meter registering mike input; 18 dB/octave infrasonic filter, source/tape monitoring. FR 3-100,000 Hz ± 1 dB; THD 0.008%; input imp 100,000 ohms; output imp 150 ohms; S/N 116 dB, charcoal faceplate $239

Ten Series Two Equalizer
Stereo graphic equalizer with video/sound input and switching, 18 dB/octave infrasonic filter. Features LED's in slide controls; flashing LED to indicate when in tape EQ mode. Center frequencies 31.5, 63, 125, 250, 500, 1k, 2k, 4k, 8k, 16k Hz; boost/cut range max 12 dB; FR 3-100,000 Hz ± 1 dB; THD 0.005%; S/N 120 dB . . . $229

Video Soundtracker
Stereo synthesizer with dynamic noise reduction and 5-band equalizer for television or VCR sound. Frequency centers at 60, 250, 1,000, 3,500, 10,000 Hz; Digital stereo synthesizer; 14-dB noise reduction at 7,000 Hz. FR 10-15,750 Hz ± 1 dB; S/N −80 dB; THD 0.05%; 17" w x 2.5" h x 6" d; 6 lbs $159

Octave Equalizer
Features paired-octave slider controls, tape record EQ; 18 dB/octave subsonic filter. FR 3-100,000 Hz ± 1 dB; S/N 118 dB; THD 0.008%; 17" w x 2.5" h x 6" d; 6 lbs $149

AUDIO DESIGN ASSOCIATES

EQ-5 Stereo Equalizer
Two channel, 5-band equalizer with ± 0 dB range and unity gain controls; Features bypass switch; power switch and indicator; external DC power supply; compact design; standard EIA rack-mountable. Frequencies 37 Hz/109 Hz/675 Hz/1,300 Hz/15,900 Hz; FR 20-20,000 Hz ± 3 dB; S/N 85 dBl THD 0.05%. 2 lb; 19" w x 1.75" h x 5.5" d $659

AUDIONICS BY FOSGATE

SD-3 Dolby Surround
Dolby Surround™, Pro-Logic™ surround audio processor. Provides high seperation of Dolby Surround software utilizing newly developed Dolby Laboratories technology. All technical specifications are essentially identical to Dolby Labs CAT-150 theatre processor. Built in 40 W/ch amp; pink noise generator for speaker calibration with autosequencing, and logic derived center front channel. Variable time delay; infrared remote control; All analog circuitry operates in class A mode. FR L/R front 20 -20,000 Hz ± 1 dB; CF 100-20,000 Hz ± 1 dB; Dolby surround outputs −3 dB at 7500 Hz; S/N front channels typicly 90 dB $795

SIGNAL PROCESSORS

ADC

Sound Shaper SS-525X Equalizer
Automatic computerized 12-band system/room EQ with channels separate or together and real-time spectrum analyzer. Features dbx technology; remote control; precision 2-dB settings; switchable 18-dB/octave infrasonic (subsonic) filter; microcomputer with 4 memories for storing user-created EQ curves; switchable FL display; electronic rocker-switch frequency controls; left and right ch attenuation; 2 tape monitors; 2-way dubbing; EQ record; buitl-in pink-noise generator. ± 13 dB control range. Includes calibrated electret-condenser mike $600

Sound Shaper SS-412X Equalizer
10-band-per-ch octave equalizer/spectrum analyzer with pink-noise generator. Features calibrated electret-condenser mike; oversized FL RTA display for L, R and L + R channels; 2 tape monitors; 2-way dubbing. Control range ± 15 dB. 17.5" w x 3.5" h x 11.75" d $400

325X Graphic Equalizer
12-band-per-ch equalizer/real-time analyzer with 5 memories for storing user-selected EQ curves. Features microphone; pink-noise generator; stepped EQ controls; narrow-band bass sliders; infrasonic filter; 2-way dubbing. Center frequencies at 25, 40, 63, 100, 160, 500, 1,000, 2,000, 4,000, 8,000, and 16,000 Hz $400

Sound Shaper SS-117EX Equalizer
10-band-per-ch octave equalizer/spatial expander. Features 20 lit sliders; multicolor LED display for spatial-expansion level; 2 tape monitors; 2-way dubbing; spatial expansion in/out and level control. Control range ± 15 dB. 17.5" w x 3.5" h x 8.75" d $250

300SL Equalizer
Slim-line 10-band equalizer/real-time analyzer withmicrophone and pink-noise test signal for fine-tuning speakers and room response. Features ± 15-dB control range; large FL display; lighted EQ sliders; sttep infrasonic (subsonic) filters; 2 tape moitiors; 2-way dubbing. Center frequencies at 32, 63, 125, 250, 500, 1,000, 2,000, 4,000, 8,000, and 16,000 Hz $240

Sound Shaper SS-100SL Equalizer
Slim-line 10-band EQ with ± 15 dB control range. Features FL RTA display; 18-dB/octave infrasonic (subsonic) filter; EQ record $160

AKAI

AS-P302-B Surround-Sound Decoder
Dolby- and matrix-surround decoder and video switcher with 4 video and 2 audio inputs. 20-function wireless remote control; 25 W/ch surround amp; front-panel video aux input; tone control; muting; independent record selector; input balance; 3 surround balance memories. FR 10-25,000 Hz ± 3 dB; S/N 90 dB. 17.3" W x 3.1" h x 10.2" d; 10.8 lb $299

APHEX SYSTEMS

ESP 7000 Surround Decoder
Surround sound decoder with 6 full range outputs, L front, R front, center, L rear, R rear, center. Ratiometric circuitry provides up to 50 dB separation. Dolby Surround™ compatible cinema mode; infrared remote controls power, balance, volume, separation, mode and tape monitor. FR main outputs 12-50,000 Hz +0 −1 dB (music mode), subwoofer output 12-150 Hz −3 dB; dynamic range 96 dB; THD 0.03% for 0 dBv input level; output gain trim ± 8 dB; 1.75" h x 9" d x 17" w (19" wide with optional rack ears); 11 lb $995

AUDIO RESEARCH

EC-21 Electronic Vacuum-Tube Crossover
Low-frequency, passive high-frequency electronic crossover; features individual low-ch level controls; 9-dB max gain; auto warm-up muting; fixed frequency capacitor kits available. Input imp 100k ohms; THD 0.003%; outputs match Audio Research power amps; 19" w x 6" h x 5.25" d $995

AUDIOSOURCE

EQ-One Series II Graphic Equalizer/Analyzer
Rack-mount, professional-type stereo graphic equalizer with built-in real-time analyzer, pink-noise generator, omnidirectional electret condenser mike. Features LED display of 80 red, 10 green, 2 red LEDs that constantly give accurate music readings, infrasonic filter. Center frequencies 31.5, 63, 125, 250, 500, 1k, 2k, 4k, 8k, 16k Hz; boost/cut range ± 12 dB; FR 3-100,000 Hz ± 0.75 dB; distortion 0.0045% 20-15,000 Hz, 0.027% 20-20,000 Hz; hum and noise ± 99.7 dB at 1 V; max input/output 6.8 V; input/output imp 100k/68 ohms; infrasonic filter slope −18 dB/octave; analyzer display range ± 16 dB; pink-noise output level/imp 100 mV/6k ohms; mic sens −73 dB at 1,000 Hz ± 3 dB; mic imp 600 ohms; mike FR 30-16,000 Hz; 19" x 8.36" x 5.22" $370

SS-One Surround Sound Processor
Dolby surround sound processor with variable surround-sound effects and built-in rear-ch amp. Features variable digital time delay; LED audio-level indicators; preamp outputs; synthesis and matrix stereo/surround for non-Dolby-encoded software; 100, 10,000 Hz boost circuits. FR 20-20,000 Hz ± 3 dB; S/N 85 dB. 16.5" w x 2.25" h x 11.5" d; 8 lb $300
SS-One System. Same as SS-One with pair of LS-Ten 2-way compact speakers for rear ch .. $370

AV-Four A/V Selector/Surround Sound
Synthsized surround sound with built-in 15-W/ch amp, 7-band graphic EQ with spectrum analyzer, 5 video/stereo audio inputs, RF in and out. Features DNR; antenna switching, RF maodulator. FR 20-20,000 Hz ± 3 dB; S/N >80 dB. 16.5" w x 2.25" h x 10" d; 7 lb $200

AV-Three A/V Selector/Processor
Audio/video fader, enhancer, color and hue control for 5 video/stereo inputs and outputs. Features spectrum analyzer display; RF in and out; RF modulator; DNR; stereo synthesizer; antnna switching. FR 20-20,000 Hz ± 3 dB; S/N >80 dB; chroma phase 45%; chroma level 200%; enhancer 0-9 dB. 16.5" w x 2.25" h x 10" d; 6.75 lb $200

EQ-Eight Graphic Equalizer
10-band equalizer with 90-LED spectrum display. Features LED's on slide controls; control range ± 12 dB; audio inputs plus second set of inputs for video audio or other high-output source; EQ rec switch; EQ defeat; tape monitor switch. FR 5-100,000 Hz ± 1 dB; S/N −80 dB; THD 0.03%. 5 lb; 16.5" w x 2.43" h x 7.12" d $160

AZDEN

GX-500 Graphic Equalizer
33 point ⅓ octave graphic EQ designed for studio or professional applications. Allows input attenuation from 0-20 dB; equalizing range ± 15 dB; FR 10-100,000 Hz ± 3 dB; S/N 106 dB; THD .005%; 17" w x 3.5" h x 9" d; weight 3.5 kg $495

GX-50 Equalizer
Black 10-band equalizer with real-time spectrum analyzer; pink-noise generator; mike. FR 10-35,000 Hz ± 3 dB; S/N 90 dB; THD 0.005%. 10 lb; 17" w x 3.5" h x 9" d $300

GX-45 10-Band Graphic Equalizer
10-band/ch EQ with graphic display, ± 15-dB boost/cut. Designed to handle 2 tape decks for dubbing purposes. FR 10-35,000 Hz ± 3 dB; S/N 90 dB; THD 0.005%; max output 6 V. Black. 17" w x 3.5" h x 9" d; 9 lb $225

GX-36 10-Band Graphic Equalizer
10-band/ch EQ with ± 15-dB boost/cut. Designed to handle 2 tape decks for dubbing purposes. FR 10-35,000 Hz ± 3 dB; S/N 100 dB; THD 0.005%; max output 6 V. Black. 17" w x 3.5" h x 9" d; 8 lb $125

BOZAK

E-901A Signal Delay
Continuously variable delay system from 30-260 ms. Recreates concert-hall ambience in the home. Features re-mix for up to 3 sec of delay. FR 100-15,000 Hz ± 3 dB; THD <0.09%; hi-freq adj ± 12 dB. 15 lb; 17.75" w x 2.50" h x 9.75" d ... $649
E-902A. Same as E-901A with addition of 35 W/ch built-in amp $899

CARVER

Digital Time Lens
Designed for use between a CD player and preamp, integrated amp, or receiver to ameliorate the hot, harsh, bright sound sometimes found on CD's by changing frequency balance. Also changes ratio of L−R to L+R to recover lost ambience and spatial detail. 17.36" w x 1.33" h x 4" d $259

C-9 Sonic Hologram Generator
Designed to restore lifelike space and dimension to music. Sonic Hologram Generator precisely locates instruments and vocals in 3-dimensional space by using otherwise inaudible phase and time information to recreate the original vector sound field. Requires no special source material or additional speakers. Specs and performance identical to Sonic Holography section of C-4000 preamp. 19" w x 1.75" h x 4.62" d $249

CELLO

The Audio Palette
For changing tonal balance in 6 low-Q bands centered at 15, 120, 500, 2k, 5k, 25k Hz; max boost or cut 12 dB; sep input controls for L and R; controls for absolute phase (right 180°, left 180°, 0°, 180°), EQ (out, in, blend), monitor/center (+10 to <−40 dB), and output level (+10 to <−40 dB); Class A discrete circuitry $8,900

Master Supply
120 V AC $2,250

CERWIN-VEGA

DB-10 Bass Turbocharger
A combination bass equalizer/subsonic filter which boosts bass response at 30 Hz by 5 to 10 dB (switchable), and at the same time eliminates all subsonic distortion below 20 Hz. Allows power handling to be increased while adding substantial low frequency information to response. FR ± 0.25 dB; rated output 2 V rms; max output 8 V rms $60

DB SYSTEMS

DB-3 2-Way Active Crossover
Fixed frequency active crossovers 6 or 12 dB Gaussian. Features screwdriver adjustable level controls on outputs; separate power supply. FR 10-100,000 Hz ± 3 dB; S/N 95 dB; THD 0.003%; 2.5 lb; 8.5" w x 3.2" h x 7" d $292
Three-way 18 dB $539

Two-way 18 dB $384
Three-way 12 dB or 6 dB $349
Two-way 100 Hz, 18 dB $322
DB-2A Power Supply $85
DBP-1 Auxiliary Cable $18

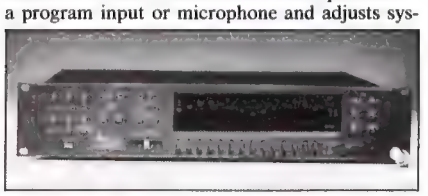
DB-3-24 In-Phase Crossover
24-dB/octave crossover minimizes irregularity in radiation pattern through crossover region. High, low-pass outputs always in phase with each other, 6 dB down at crossover frequency. Noise performance improved by 10 dB over 18 dB DB-3. Requires DB-2A power supply or DBP-1 cable. User specifies frequency. Available in 2-way only $490
DB-3-24-100. Standard version of above, set at 100 Hz, with additional common bass $405

DB-5 Tone Control
Tone controls with 3 high and 3 low break frequencies; low-frequency boost switch and outputs for sum and difference signals. FR 10-100,000 Hz ± 3 dB; S/N 96 dB; THD 0.0008%; IMD 0.001%. Requires DB-2A power supply or DBP-1 aux cable if used with existing DB Systems equipment. 8.5" w x 3.2" h x 7" d; 2.8 lb $380
DB-5AU. Similar to DB-5 with oak cabinet and gold jacks $465

DB-7 Phase Inverter
Phase inverter and bridging adaptor with supersonic and subsonic filters (18 dB). FR 10-1000,000 Hz ± 3 dB; S/N 109 dB; THD 0.003%; IMD 0.003%. Requires DB-2A power supply or DBP-1 aux cable if used with existing DB Systems equipment. 6.2" w x 2.2" h x 4.5" d $195

dbx

14/10 Equalizer/Analyzer
Automatic computerized equalizer/analyzer analyzes and displays the precise sound spectrum heard in a room at either fast or slow speeds from a program input or microphone and adjusts sys-



tem output to compensate for room anomalies. Memorizes 10 optimum room settings and can average them and recalls any of the equalized settings at the touch of a button. Features real-time analyzer with display; microprocessor-controlled 14-band EQ; pink-noise generator with calibrated microphone; digital SPL meter. Center frequencies at 31.5, 45, 63, 90, 125, 180, 250, 360, 550, 1,000, 2,000, 4,000, 8,000, and 16,000 Hz; control range ± 12 dB $1,299

Digital Series Dynamic-Range Controllers

Rack-mountable dynamic-range controllers with overeasy compression for background listening. Expansion yields CD-like sound from LP's, FM radio, and TV/video. Features impact recovery for more lifelike "punch"; ambience to adjust spaciousness and stereo focus; full LED; hardwire bybass for comparisons; tape/source and pre-record or post-play tape procession.
3BX-DS. Processing all done in 3 individual frequency bands for minimal adverse interaction among instrumental ranges $499
1BX-DS. Similar performance to 3BX with 1-band full-range design $279

224X-DS Type-II Noise Reduction System
Rack-mountable NR system doubles tape deck's dynamic range with 40-dB min noise reduction. Features 2-deck switching and dubbing with encoding and full monitoring possible; hardwire bypass. Dynamic range 105 dB; THD 0.1% 100-20,000 Hz, 0.5% 30-100 Hz; IMD 0.2% ... $299

120X-DS Subharmonic Synthesizer
Rack-mountable subharmonic synthesizer with adjustable bands and varible subwoofer crossover. Synthesizes 27-55 Hz subharmonic fundamentals from 55-110 Hz program input. Features variable phase-coherent crossover for subwoofer applications. FR 25-20,000 Hz ± 1 dB; dynamic range 105 dB; crossover 12 dB/octave highpass (−3 dB at 120 Hz), 6 dB/octave derived lowpass .. $299

DENNESEN ELECTROSTATICS

Phase Restoration Device
Corrects for high-frequency phase delay caused by output filters in digital recorders and CD players. Features process or bypass, phase plus, phase minus. FR 10-100,000 Hz ± .1 dB; S/N 90 dB; THD 0.01%; 5 lb; 10" w x 1.75" h x 8" d . $300

DENON

DE-70B Dynamic Equalizer
12-band stereo graphic equalizer. Can be used to control dynamic expander function for increased dynamic range at selected frequencies with adjustable rate level. Features separate rec out and input selectors. 3-positionmonitor switch. FR 10-200,000 Hz +0, −2.5 dB; low distortion −0.0003% at 1,000 Hz $470
ACA-36. Wood side panels for DE-70B $30

FISHER

ASR-875 Surround Sound System
Surround system includes CAV-875 surround sound processor/amplifier with wireless remote

control and WS-460 surround speakers. Processor features Dolby Surround processing; simulated, hall, and stadium surround effects, switchable 10, 20, 30, 40, or 50 ms delay; 4 sets stereo video inputs; 2 sets stereo video outputs; 1 aux input; 1 tape monitor; 24-function remote control. Each speaker features a 6.5" woofer; 3" tweeter. Power output: 30 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.5% THD $399

FOSGATE

DSM 3602ag Digital Surround Processor
High seperation surround audio processor. May be used in systems ranging from 3 to 8 speakers. Subwoofer out; built in 40 W/ch amp; variable time delay; infrared remote control; selectable stereo stage width; Dolby surround decoding; logic derived center channel; 4 A/V inputs; tape monitor; bass EQ. All anolog circuitry operates in class A mode; Polystyrene and polypropylene capacitors in audio signal path. FR 2-30,000 Hz ± 1 dB; THD/IMD typically 0.05% or less; S/N typically 85 dB or greater; sep 35 dB; 17.25" w x 2.75" h x 12" d; 12 lb $1,195
DSM 3602. As above less built in amp ... $995
DSM 3604. Same as DSM 360ag less side channel outputs or A/V inputs $795
DSM 3603 Surround Processor
Same performance characteristics as DSM 360ag less remote control, side channel outputs, A/V inputs, variable time delay or noise reduction. All decoding functions are otherwise identical . $495

HARMAN KARDON

EQ8 Graphic Equalizer
Stereo 10-band graphic equalizer with infrasonic filter continuously variable from 5 to 30 Hz; separate L and R input controls with overload LED's; tape monitor; tape EQ. Center frequencies 31.5, 63, 125, 250, 500, 1k, 2k, 4k, 8k, 16k Hz; max boost or cut 12 dB $258

JVC

SEAM770BK Graphic Equalizer
Electronic 7-band graphic equalizer with infrared wireless remote control. Features 7 frequency equalizer controls per channel; 6 user preset equalizations; 6 programmed preset equalizations; LCD for S.E.A./real-time spectrum analyzer; computer-controlled electronic equalization. Remote control functions include adjusting frequency response; recalling a preset equalization; memory of user-programmed EQ curves; adjusting volume; fade-muting sound; initiating preset scan; selecting transfer, reverse, or flat response $400

SUA30 A/V Surround Processor
Surround sound processor with three surround effects including Dolby Surround, hall surround, and simulated surround. Features built-in amplifier; left/right calibration and delay-time controls; volume control for rear speakers; preamp-level output for external power amplifier; headphone jack for surround sound headphones. Power output: 10 W/ch into 8 ohms from 40-20,000 Hz with no more than 0.5% THD $235

SEA12BK Graphic Equalizer
7-band graphic equalizer features 7 frequency controls per channel with ± 10 dB control range; S.E.A. recording for equalized tape dubbing; −6 dB input attenuator to prevent overload distortion; transistor inductors for expanded dynamic range. FR 10-50,000 Hz ± 3 dB; S/N 110 dB; THD 0.03% at 1,000 Hz. 17.19" w x 2.44" h x 7.86" d; 4.2 lb $100

KENWOOD

GE-1100 12-Band Graphic Equalizer
Basic series graphic equalizer with built-in reverb amp and 12-band spectrum analyzer display. Features independent L/R channel EQ controls; ± 12 dB EQ range; L/R or L+R display selector; LED illuminated slide controls; time-delay and depth controls; two tape monitors with bidirectional dubbing and monitoring; full-effect recording; EQ normal/reverse selector; −6 dB attenuator; THD 0.003%; S/N 105 dB. 17.31" w x 6.44" h x 13.75" d; 13.6 lb $430

SS-96 Surround Sound Processor
Audio/video surround processor with remote control. Features Dolby Surround processor; theater and stadium effects; time delay control; left/right channel calibration controls; two VCR inputs with dubbing and audio injection; VDP input; tape monitor; video monitor; FL display; 15 W/ch amplifier; preout connection to external amplifier. 16.56" w x 3.44" h x 10.81" d; 9.9 lb .. $350

SS-75 Surround Sound Processor
Features Dolby Surround processor; theater and stadium effects; time delay control; left/right channel calibration controls; surround volume control; LED leve meter and power indicator;

built-in 5.5 W/ch amplifier; preout connection to external amplifier. 16.56" w x 2.19" h x 8.56" d; 6.8 lb $250

GE-76 9-Band Graphic Equalizer
Features independent L/R channel EQ controls; ± 12 dB or ± 6 dB variable range; spectrum ana-

lyzer with separate left & right channel displays; reverse mode switch; EQ record switch; line, tape, adaptor input/output connectors. 16.56" w x 3.5" h x 10.38" d; 7.9 lb $240

GE-56 12-Band Graphic Equalizer
Features independent L/R channel EQ controls; ± 10 dB EQ range; LED display; output level control; line/tape input/output connector; EQ on/off switch. 16.56" w x 3.44" h x 10.25" d; 6.0 lb$160

GE-46 7-Band Graphic Equalizer
Features independent L/R channel EQ controls; ± 10 dB EQ range; LED display; line/tape input/output connector; EQ on/off switch. 16.56" w x 3.44" h x 8.88" d; 6.6 lb $100

KINETIC AUDIO INT'L

3-Point Crossover/Level Control
Monophonic passive crossover/level control system that keeps low frequencies from entering miniature monitor, satellite speaker systems. Features crossover level control and mid-high-pass filter. Crossovers 65, 90, 180 Hz; converts 4- to 8-ohm load. Can be built into Kinetic subwoofers. Mono version $150

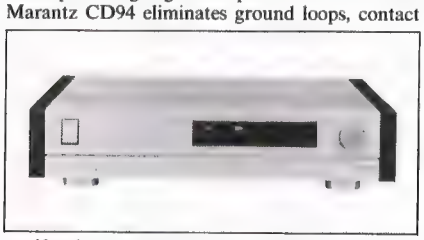
4-Point Crossover/Low-Pass Filter
Monophonic passive crossover to be used with subwoofer for filtering out unwanted midrange and high frequencies. Crossover points are 60, 90, 180, and 350 Hz; imp 6-8 ohms. Can be built into Kinetic subwoofers. Mono version; 15 lbs; 4" h x 15" w x 10" d $150

LUXMAN

G-100 Graphic Equalizer
10-band graphic EQ with ± 12-dB cut/boost on standard ISO centers. Features expansion/compression enhance to improve dynamic range; STAR circuit topology; post and pre-record EQ capability. FR 10-50,000 Hz ± 0.5 dB; S/N 110 dB IHF A-wtd; THD 0.003%. 17.25" w x 3.88" h x 9.44" d; 5.9 lb $250

MARANTZ

CDA-94 Outboard D/A Converter
Used with CD players and other digital components providing digital output. When used with Marantz CD94 eliminates ground loops, contact



rectification; accepts 2 wired digital inputs with additional input and output connectors for DAT tape deck; automatically selects correct sampling rate for DAT deck; fixed and variable line outputs, adjustable headphone level and balanced XLR-3 outputs $1,700

EQ 551 Graphic Equalizer
10-band graphic EQ with separate controls controls for left and right channels and equalized tape output. Calibrated mic included. FR 20-40,000 Hz ± 3 dB; THD 0.005%; S/N 80 dB. 16.5" w x 2.88" h x 7.62" d; 5.9 lb $250

EQ 130 Graphic Equalizer
10-band graphic equalizer with seperate controls for each channel. 5.5 lb; 16.5" w x 2.62" h x 8" d $130

MARK LEVINSON BY MADRIGAL

LNC-2 Electronic Crossover
Modular system for frequency division of line-level signals. Features 4 active filters (2 high pass, 2 low pass); on/off switch for each high- and low-pass filter, internal stereo/mono switch and Camac connectors; hand-brushed and black anodized finish; 18 dB/octave slopes, optional 6-dB or 12-dB slopes for 3-way stereo operation; optional 6-dB/octave slope OCS modules; output level of each frequency controlled by 10-turn locking potentiometer on front panel. THD 0.002%; wideband noise less than 102 dBV unwtd; accuracy within 5% of specified crossover point; PLS-151 separate power supply load regulation 0.05%; wideband noise output 18 μV; LNC-2: 2.25" h x 19" w x 7.88" d; PLS-151: 4.36" h x 4" w 10.62" d; 12 lb $3,280

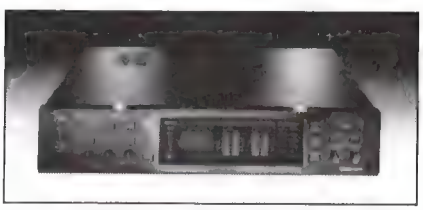
MEMOREX by MEMTEK

DS-10 Surround Sound Decoder with Amplifier
Reproduces Dolby surround sound. Features 15 W/ch through user's two rear speakers, or can be used as a stand alone audio amp. providing 5 W/ch to front and rear speakers. Dolby surround mode can be selected, or choose the stereo All mode, allowing non surround encoded stereo programs to be played. Input balance control; front/rear balance; flat black finish with gold lettering $130

Infrared Cordless Headphone Adaptor
Infrared transmitter beams any audio source to a special receiver module that can accept all mini-plugged headphones $70

NEC

AVD-700E Surround-Sound Processor
Remote-controlled 16-bit digital-delay surround-sound processor with Dolby, hall, matrix, and



creation surround circuits. Features inputs for up to 10 video and 5 audio sources; mix-and-match of any video with any audio source; master level control; reset button to set all volume levels to −40 dB without affecting any presets; volume indicators that indicate display levels of front and surround sound channel by channel. FR 10-20,000 Hz +5, −1 dB; S/N 100 dB. 16.94" w x 3.16" h x 13.39" d; 16.1 lb $729

NIKKO AUDIO

EQ-950 Graphic Equalizer/Spectrum Analyzer
Features 10 bands/ch; spectrum display of separate or combined L/R EQ settings; pink noise generator; mic for EQ slope; EQ bypass; source selector; tape in/out. Center frequencies at 31.5, 63, 125, 500, 1,000, 2,000, 4,000, 8,000, and 16,000 Hz $295

EQ-25 10-Band Equalizer
Graphic equalizer with adjustable frequencies at octave intervals from 31.5-16,000 Hz. Features 10 slider controls per ch $269.95

EQ-540 9-Band Equalizer
Graphic equalizer with 9 bands/ch and built-in graphic indicator $200

ONKYO

EQ-35 Integra Graphic Equalizer
12-band graphic equalizer with signal generator. Features individual controls for each channel; LED slide markers; signal generator for all center frequencies except 16 and 32,000 Hz; step or sweep generator mode; level control, ± 12 dB or ± 6 dB adjustment range switch; operation mode display; delta power supply; silver finish. Center frequencies at 16, 32, 64, 125, 500, 1,000, 2,000, 4,000, 8,000, 16,000, and 32,000 Hz. S/N 100 dB; THD 0.01%. Also available with black-matte finish as model EQ-35B $320

EQ-240 Graphic Equalizer
7-band graphic equalizer includes a spectrum analyzer display with level control. Features LED indicator for each band; EQ bypass switch; monitor/tape-source switch. Center frequencies at 64, 160, 400, 1,000, 2,500, 6,300, and 16,000 Hz. S/N 100 dB; THD 0.01% at 20-20,000 Hz, 1.5 volt output. 17.12" wide x 2.81" high x 10.12" deep; 6.4 lb $210

EQ-18 Graphic Equalizer
7-band graphic equalizer with LED indicator for each band, EQ bypass switch, and monitor/tape-source switch. Center frequencies at 63, 160, 400, 1,000, 2,500, 6,300, and 16,000 Hz. S/N 100 dB; THD 0.01% at 20-20,000 Hz, 1.5 V output. 17.12" w x 2.88" h x 10 d"; 5.3 lb $135

PARASOUND

PVA-1 Audio/Video Equalizer
With 18-W/ch Dolby Surround-Sound amp; 3-band surround EQ; remote controls video inputs, main audio level, surround audio level, color, hue, sharpness, video fader; video switching; linear push-type controls; electronic input switching; color and sharpness correct; video fader; 10-band, 3-color spectrum display; 2-way tape dubbing; RF input; 3 video inputs; front panel jacks for VCR 2. S/N 100 dB; 17.25" w x 4.25" h x 8.5" d $595

EQS-1 Equalizer/Spectrum Analyzer
10-band/ch graphic EQ with fluorescent real-time spectrum analyzer and built-in pink-noise generator. Features 22 multiple-detented and illuminated 30-mm stroke sliders; illuminated switches; subsonic filter; bi-directional tape dubbing; record EQ switch for dubbing; switchable line input; display peak hold; electret mike. Max boost/cut 12 dB; center frequencies 30, 60, 120, 250, 500, 1k, 2k, 4k, 8k, 16k Hz; S/N 100 dB; 17.25" w x 4" h x 9.5" d; 10 lb $345

EQ300 Graphic Equalizer/Analyzer
12-band graphic equalizer with real-time spectrum analyzer. Max boost/cut 12 dB, center frequencies 16 (cut only), 30, 60, 90, 120, 250, 500, 1,000, 2,000, 4,000, 8,000, 16,000 Hz. Multiple-detented 45-mm slider controls ganged by frequency; illuminated 2-color LED tape-monitor switch; EQ record switch for tape dubbing; bypass switch; detented level control; 16-Hz variable rumble filters; 90-Hz room-boundary control; AC outlet. S/N 100 dB; 9 lb; 17.25" w x 4.25" h x 8.5" d $240

EQ225 Equalizer/Analyzer
Illuminated LED's; separate level control for each channel; tape dubbing; video sound input; 3-color spectrum display. S/N –100 dB; max boost/cut 12 dB. 17.5" x 2.88" x 8.5" $185

PIONEER

SP-101(BK) Surround-Sound Processor
Features 4 processing modes; 2-ch rear output for unequal delay decoding; super-bass synthesiser; adjustable low-cut filters; simulated stereo; switchable inout level. 16.56"w x 2.38" h x 13.25" d $350

SP-X707(BK) Surround-Sound Processor
Features 4 surrond modes (simulated stereo, stadium, theater, and Dolby); dynamic expansion switch; super-bass switch; wireless remote control. 30 continuous average W/ch. 2.94" h x 14.19" w x 13.06" d $320

SG-60(BK) Graphic Equalizer
Features 12 bnads/ch; independent controls for left and right ch; 2 tape monitors; input level control; balck finish. Center frequencies at 16, 32, 64, 125, 250, 500, 1,00, 2,000, 4,000, 8,00, 16,000 and 32,000 Hz; control range ± 12 dB. 5.19" h x 16.56" w x 13.81" d $300

EX-9000(BK) Dynamic Processor
Features dynamic range expansion; noise-reduction effect; FL level indicator; input level control; tape monitor switch; black finish. Center frequencies 50, 500, 5,00 Hz; attack time 4.7 ms; release time 2.7 ms/6.8 ms switchable. 2.38" h x 19.56" w x 3.38" d $260

EG-X707(BK) Audio/Video Processor
Features 7-band/ch graphic equalizer; spectrum frequency display; video enhancer (detail, sharpness, noise cancel, white clip); color control (color, balance, hue, color depth); audio/video fader control. 3" h x 14.19" w x 13.12" d $225

SR-60(BK) Reverberation Amplifier
Features solid-state BBSD circuit; reverb, echo, and duet effects; visual display; tape monitor; black finish. Reverb time 0-3 seconds (reverb and echo); delay time 100 ms (duet). 3.88" h x 16.56" w x 13.38" d $210

GR-551 Graphic Equalizer
Features 7 bands/ch; built-in spectrum display for each ch; tape monitor switch; EQ on/off switch $200

AVS-700 A/V Selector/Enhancer
4-input/3-output video switcher with stereo audio. Features RF or video switching; 2-way video dubbing; audio-only dubbing to a hi-fi VCR; DNR; simulated stereo; separate record and view selectors; front-panel input/output. 16.5" w x 2.38" h x 8.5" d..... $160

GR-470(BK) Graphic Equalizer
Features 7 bands/ch; slide controls with LED indicators; black finish/ Center frequencies at 60, 150, 400, 1,000, 2,400, 6,000, and 15,000 Hz. 2.38" h x 16.56" w x 8.69" d..... $100

GR-X505(BK) Graphic Equalizer
Features 7 bands/ch; independent controls for each ch. 2.19" h x 14.19" w x 12.44" d $90

RCA

MSP400 Dolby Surround Sound Processor
Dimensia surround sound processor with built in amplifier and Dimensia remote operation. Features Dolby Surround; simulated surround; theater surround; stadium surround; front/rear channel volume with mute; loudness; bass boost; sound expansion; line-level center- and rear-channel outputs; tape monitor loop; AC convenience outlet. Power output 30 W/ch from 100-6,000 Hz with no more than 3.0% THD; S/N 60 dBA (surround speakers output). 14.5" w x 3" h x 13.13" d $349

MGE260 10-Band Graphic Equalizer
Features Dimensia system design; automatic power-on; lighted slide controls; fluorescent spectrum analyzer display; built-in muting; EQ-bypass switch; power-off bridging; AC convenience outlet. EQ center frequencies: 31.5, 63, 125, 250, 500, 1,000, 2,000, 4,000, 8,000, and 16,000 Hz; adjustment range ± 10 dB. FR 20-20,000 Hz ± 0.5 dB; S/N >100 dBA; THD <0.005%. 14.63" w x 3" h x 10.38" d $219

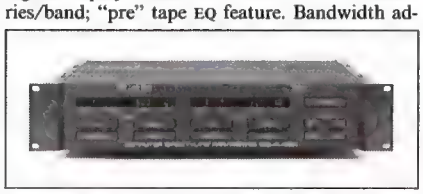
REALISTIC

31-2020 10-Band Equalizer
10-band/ch EQ with spectrum analyzer; IMX spatial expander; tape 1 and 2 in/out. S/N 95 dB. 16.22" w x 2.62" h x 8.47" d; 6.1 lb..... $130

31-2018 10-Band Equalizer
10-band/ch EQ with IMX spatial expander. S/N 95 dB. 350 mm w x 64 h x 146 d $60

SAE

E-101 Parametric Equalizer
Computer direct-line parametric equalizer with digital display. Features 2 bands with 10 memories/band; "pre" tape EQ feature. Bandwidth adjustable from 0.3-3.0 octaves; boost/cut range ± 16 dB; rated output 2.5 V rms; THD 0.02%; S/N 100 dB; 19" w x 12.5" d x 3.5" h $650



E010 Parametric Equalizer
3-band stereo parametric equalizer. Features adjustable center frequencies, level, and bandwidths. Continuously variable output level; line/tape monitor; LED peak indicators; walnut grain side panels; level range ± 16 dB; bandwidth range 0.3 to 3.0 octaves. FR 20-20,000 Hz ± 3 dB; S/N 90 dB; THD 0.03%; IMD 0.03%. 13 lb; 18" w x 4" H x 14""dD $299

SANSUI

SE-99B Graphic Equalizer
12-bands/ch computer-controlled electronic graphic equalizer with 11 memories (5 user accessible, 5 factory set, 1 auto flat). Built-in mike automatically sets flat room response when used with remote control. Features light pen for setting EQ as alternate to remote control. FR 10-100,000 Hz ± 3 dB; S/N 120 dB; center frequencies at 16, 32, 64, 125, 250, 500, 1,000, 2,000, 4,000, 8,000, 16,000, 32,000 Hz; ± 6-dB and ± 12-dB range. 16.94" w x 4.81" h x 11.94" d; 11.7 lb $725

AV-99 Audio/Video Processor
A/V proccessor accepts signals from any line out format. Features digital "Video Art" special effects; video enhancer; A/V faders. Terminals for 2 VCR's, 1 camera, 1 audio component, and 2 monitors; dubbing capabilities; audio insert; character generator terminals. Video input sens 1.0vp-p/75 ohms. Audio input sensitivity -6 dBs/47 kilohms. 16.94" wide x 4.06" high x 11.25" d; 9 lb $650

VX-99 Video Processor
Similar to AV-99 but without audio processing and video wipe features $600

DS-77 A/V Surround Sound Processor
Provides amplification for rear channel and center front for audio and video sound. Features super bass synthesizer; peak attacker; simulated stereo; built-in amp delay memories. Decodes specially encoded video tapes. FR 20-20,000 Hz ± 3 dB; THD 0.09%; delay time theater and hall 20 m/sec; 10 W/ch for rear speaker drive. 16.94" w x 2.94" h x 9.88" d; 8.6 lb $400

AV-77 Audio/Video Processor
Combines functions of video processor, audio processor and audio-video switcher in one unit. Video controls include detail; sharpness; picture; Art 1, 2 and 3 controls and special effects change color and intensity; wipe (horizontal and vertical) and fader. Features connections for 2 VCRs, video disc, video camera and audio amp. Permits bi-directional audio and video duplication, mike mixing and voice-over or dubbing. Multi-dimensional controls for expanded stereo or stereo simulation. Includes dbx NR. Built-in RF converter. Video FR 6.5 Hz to 10 MHz ± 2 dB; video S/N 62 dB; max audio output level 1.0 V; IHD 0.05%; dbx NR effect improved by 30 dB. 17" w x 3" h x 10.44" d; 8.2 lb $400

SE-88 Graphic Equalizer
Computer-controlled 14-band graphic equalizer. Features front-docking, full-featured remote; 5 memories; bi-directional tape dubbing with or w/o EQ; instant flat response; memory backup. EQ center frequencies 25, 50, 100, 160, 250, 400, 630, 1k, 1.6k, 2.5k 4K, 6.3K, 20K Hz; boost/cut range ± 10 dB; S/N 100 dB; FR 10-100,000 Hz. 16.94" w x 4.36" h x 11.94" d; 9 lb $500

SE-80 Graphic EQ/Spectrum Analyzer
10-band/ch EQ with oversized fluorescent real-time spectrum-analyzer displays for each channel sepatately or together. Features connections for 2 tape decks; EQ recording and bypass; LED's built into each EQ slider. Center frequencies at 32, 54, 125, 250, 500, 1,000, 2,000, 4,000, 8,000, 16,000 Hz. Control range ± 12 dB; FR 10-100,000 Hz ± 3 dB; S/N 110 dB; THD 0.008%. 16.94" w x 4.44" h x 8.89" d; 7.3 lb..... $350

AV-C10 Audio/Video Control Center
Cinema surround sound processor with built-in 15-W/ch amp, 5-band graphic equalizer, and selectable surround sound effects. Features 4 video inputs for bi-directional video tape or disc dubbing; inputs for video accessories; PCM digital audio processor; RF connection; VDP front-panel input; audio-insert capability. FR 20-100,000 Hz

PRICES LISTED
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All prices are subject to change without notice.

+0, −3 dB; S/N 70 dB; THD 0.02%; EQ range ± 12 dB. 16.94" w x 3" h x 10.25" d; 9.9 lb.... $320

SE-800 Graphic EQ/Spectrum Analyzer
10-band/ch graphic EQ with oversized fluorescent real-time spectrum analyzer display for each channel separately or together. Features EQ recording and bypass. Center frequencies at 32, 64, 125, 250, 500, 1,000, 2,000, 4,000, 8,000, 16,000 Hz; control range ± 12 dB. FR 10-100,000 Hz ± 3 dB; S/N 110 dB; THD 0.008%. 16.94" w x 4.44" h x 8.89" d; 6.8 lb..... $290

RA-1000 Electronic BBD Reverb Amplifier
Features 2 cassette inputs; bi-directional dubbing facilities; twin mike mixing facilities with separate volume controls for duet effect; color graphic display of reverb effect. Reverb time: echo 0-4.5 sec, duel 30-200 m/sec. THD 0.025%. 16.94" w x 4.44" h x 10.75" d; 3.7 lb..... $300

SANYO

SAV200 Surround-Sound Processor
Features Dolby surround-sound decoder; concert-hall surround mode; variable time delay; ste-

reo-matrix mode; 2-color dimensional surround indicator; surround calibration and balance controls; 20 W/ch power amp..... $150

SCOTT

EQ400 10-Band Graphic Equalizer
10 bands per ch; spectrum analyzer; center frequencies at 31.5, 63, 125, 250, 500, 1k, 2k, 4k, 8k, 16k Hz; max boost or cut 10 dB; delay circuit variable up to 20 millisec; 2 tape-monitor circuits; EQ rec switch. 17.4" w x 3.72" h x 7.6" d $280

SHURE

HTS 60RX Remote Extender
Seprate infrared sensor eye package for use with HTS 5200 when decoder is installed in concealed location. .9" h x 2.4" w x 3.8" d..... $99

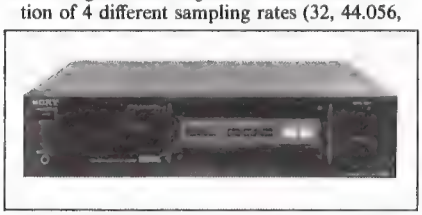
AVC20 Power Station
Video/hi-fi expander system with four 30 W/ch amplifiers. Features inputs for three video sources, turntable, aux; 17-function wirelss remote; three volume memories; three surround sound modes; stereo synthesizer; video and audio dubbing capability; independent volume control for each ch; image enhancer; noise filter; two video monitor outputs; bridgeable to two 60-W amps; master volume. FR 20-30,000 Hz ± 1 dB; image enhancer 0 dB, 3 dB, 6 dB. 21 lb... $599

HTS 5000 Surround Sound Processor
Decodes Dolby™ stereo sound encoded in video discs, video tape, and broadcast TV. Produces simulated surround sound from mono and stereo sources. Provides up to six ch of audio output: left, right, center, two surround channels, and subwoofer. Features Acra-Vector decoder circuitry with variable digital delay; acoustic space generator; remote control; output LED monitor display. FR 20-20,000 Hz ± 0.5 dB; S/N (front left, front right, center) −90 dBV, −85 dBV (surround L/R); 16.81" w x 2.38" h x 15.03 d;9.13 lb $749

HTS 5200 Generation 2
Dolby™ Surround audio processor. Acra-Vector Logic Decoder and variable digital time delay. Acoustic Space Generator™; output LED monitor; 6 ch output seperated L/R surrounds in rear, and subwoofer output; wireless remote. FR 20-20,000 Hz ± 0.5 dB (front L/R, center); S/N −90 dBV; THD (front L/R, center) <0.1%, (surround L/R) <0.3%; 16.81" w x 2.38" h x 15.03" d; 11.10 lb.....$1,000

SONY

DAS-703ES D/A Converter
Outboard digital-to-analog converter designed to decode digital audio signals. Features auto selection of 4 different sampling rates (32, 44.056,



44,1, and 48 kHz); optical transfer system for analog/digital isolation; separate large-capacity power transformers; double PLL clock system; left/right dual-monaural construction; digital monitor switch; LC-OFC wiring for all analog signal paths. Recommended for use with Sony CDP-705ESD, -605ESD, and -505ESD CD players. Includes 2 audio connecting cables and 1 digital connecting cable. 17" w x 4.12" h x 16.12" d; 33 lb.....$1,800

PCM-501ES Digital Audio Processor
Digital audio processor for recording and playback with any VCR usable in U.S. Features AC power for stationay use; digital copy output; 28-segment peak meters; black anodized finish. For use with an external mixer. Dynamic range >90 dB (16 bits), >86 dB (14 bits); FR 50-20,000 Hz ± 0.5 dB.....$1,000
PCM-601ES. Similar to PC-501ES with digital interface port, optimum video condition system, and switchable 14-/16-bit operation $1,400

SDP-505ES Surround-Sound/Delay Processor
Digital surround-sound/delay-line processor with 5 different delay modes. Features Dolby surround sound; independent left/right channel delay adjustment; buitl-in pink noise calibration generator; 3 delay memory presets; buitl-in 14-W/ch amplifier. Utilizes a 44.1 kHz sampling rate and full 16-bit quantization..... $750

SEQ-333ES Graphic Equalizer
Remote-controlled 10-band equalizer that automatically adjusts for room acoustics. Features real-time spectrum analyzer; precision test microphone; 3 inputs and outputs; 8 acoustic memories with 4 pre-programmed curves; automatic or manual equalization; battery backup for programmed settings. Center frequencies 31.5, 63, 125, 250, 500, 1,000, 2,000, 4,000, 8,000, 16,000 Hz; boost/cut range 12 dB (2-dB increments). 17" w x 4.25" h x 10.88" d..... $600

SOUNDCRAFTSMEN

AE2000 Real-Time Analyzer/Equalizer
Stereo 10-band graphic equalizer with Differential/Comparator analyzer/equalizer circuitry, pink-noise generator. Features 100-LED (10-octave) real-time display with adjustable decay rate; mike preamp; input for analysis of 3-head tape deck, other signal processor; Auto-scan mode; brushed-aluminum front panel; hardwood side panels. Center frequencies 32, 64, 125, 250, 500, 1k, 2,000, 4,000, 8,000, 16,000 Hz; boost/cut range ± 15 dB; display accuracy 0.1 dB; Auto-Scan sweep rate 0.1-10 secs/ octave; THD and IMD <0.01% at 2 V; S/N ratio 114 dB at max output; mic preamp input imp 2,000 ohms; FR 20-20,000 Hz ± 0.1 dB..... $799

DC 4415 Third-Octave Equalizer
Third-octave stereo equalizer with 21 controls/channel. Center frequencies 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1,000, 1,600, 2,500, 4,000, 6,300, 10,000, 16,000 Hz. Features EQ defeat; infrasonic filter; tape monitor and tape record; Differential/Comparator circuitry for unity gain setting to within 0.1 dB accuracy for highest dynamic range capability. THD and IMD 0.01% at 2 V; S/N 114 dB at 10 V output; input imp 47,000 ohms. Front panel rack mount, brushed aluminum with charcoal finish ... $599

DC 2215 Differential/Comparator Equalizer
Stereo 10-band equalizer with Differential/Comparator true-unity-gain circuitry for input to output balancing accuracy to within 0.1 dB. Equalizer filter circuits use precision wire-wound passive-coil inductors for high gain, low noise and distortion. Front-panel controls include tape monitor, LED defeat/EQ defeat and EQ tape record. THD and IMD 0.01% at 2 V; S/N ratio 114 dB at 10 V; boost/cut range ± 15 dB. Includes frequency spectrum analyzer test record, computone charts, cables. Front panel is rack mount, brushed aluminum with charcoal finish $399

DC 2214 Third-Octave Equalizer
Same as DC 2215 except equalizer filter circuits have op-amp synthesized inductors. THD and IMD <0.01% at 2 V; S/N ratio 106 dB at 10 volts; boost/cut range ± 12 dB..... $299

SUMO

Delilah 2-Way Electronic Crossover
Features front-panel user-selectable frequencies and slopes; 12-dB/octave high-pass slope; 12- or 18-dB/octave switchable low-pass filter with level control; stereo and mono low-pass outputs with built-in bridging circuitry; independent low-/high-pass frequency controls. FR 5-200,000 Hz ± 3 dB; THD 0.008% max; input imp 50 kilohms; output imp <100 ohms; high- and low-pass frequencies 50, 63, 80, 100, 120 Hz with bypass. 19" w x 1.75" h x 10" d; 8 lb..... $399

TEAC

EQA-30BL 10-Band/ch Graphic Equalizer
Controls at 32, 63, 125, 250, 500, 1k, 2k, 4k, 8k, 16k; Max boost or cut 15 dB; LED's in sliders; multi-color frequency analyzer with display hold and variable sens and levels; pink-noise generator; can equalizer 1 source while monitoring another; dubs source while listening to another; subsonic filter; source/record switching; EQ defeat; includes calibrated omnidirectional electret-condenser mic and 2 RCA cables; optional rack-mount kit. FR 9-120,000 Hz; S/N 104 dB; 12 lb..... $399

EQA-20 Graphic Equalizer
10-band/ch graphic EQ with spectrum display. Features max 12-dB cut/boost; rec EQ in/out; pre/post EQ switch; LED's on slide controls; left and right attenuators; tape dubbing; dual-tape recording capability. FR 5-100,000 Hz ± 3 dB; S/N >80 dB; THD 0.03%; input imp 47,000 ohms; output imp 600 ohms. 16.56" w x 2.62" h x 6.5" d; 6.6 lb..... $249
EQA-20BL. As above in black..... $249

EQA-5 Graphic Equalizer
Similar to EQA-20 without spectrum display Includes attenuator, LED meters..... $149

EQA-10IIS Graphic Equalizer
Stereo 10-band graphic equalizer with source/tape inputs; 10-band frequency-spectrum display; EQ in/out switch; pre/post EQ switch; line 1/2 input selector switch; silver..... $199
EQA-1011. As above in black..... $199

TECHNICS

SH-8065 33-Band Graphic Equalizer
With variable-range indicators and selector; tape-monitor switch; parallel L, R sliders. Center frequencies 16, 20, 25, 31.5, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10k, 12.5k, 16k, 20k, 25k Hz; boost/cut range ± 3/± 12 dB; S/N 110 dB; gain 0 dB; 16.94″ w x 13″ d x 6.03″ h; 13.2 lb $635

SH-8066 Direct-Touch Graphic Equalizer
12-band/ch graphic equalizer sets EQ curves according to line traced on front panel by fingertip. Remembers 8 preset curves; EQ Plus function; auto EQ compensates for system FR and room acoustics. S/N 107 dB; 16.94″ w x 4.69″ h x 10.09″ D; 8.4 lbs $565

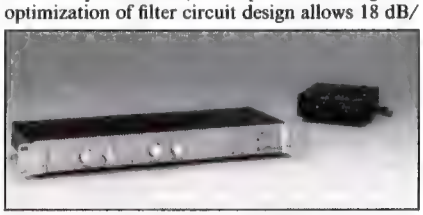
SH-AV44 Powered Surround Sound Processor
Recreates or simulates ambience depending on sound source. Features Dolby surround and Technics AV surround system to extract reverberant sound information from and add phase shift to non-Dolby sources. Can be used with mono and stereo signals. Music, movie, and manual modes; 4 video inputs. S/N 90 dB; 25 w into 8 ohms. 16.94″ w x 3.36″ h x 10″ D; 10.1 lbs $350

SH-8046 Direct-Touch Graphic Equalizer
7-band graphic EQ with curves set by tracing fingertip across display. Max boost 12 dB, max cut 12 dB. Features FL display of EQ settings or music content by frequency band (spectrum analyzer); 4-preset EQ-curve memory; switch to reverse EQ curve; EQ-curve-lock switch; EQ rec switch; EQ on/off switch; tape monitor (source/tape) switches. Center frequencies at 63, 160, 400, 1,000, 2,500, 6,300, 16,000 Hz. 16.94″ w x 3.89″ h x 9.41″ D; 6.6 lbs..... $300

SH-8028 7-Band Graphic Equalizer
With tape rec/playback EQ; sliders with LED indicators; EQ on/off switch; low-noise op amps; calibrated decibel scale; tape monitor (source/tape) switch; rec mode (straight/EQ) switch. Center frequencies at 63, 160, 400, 1,000, 2,500, 6,300, 16,000 Hz. S/N 110 dB IHF A; cut/boost ± 12 dB. 16.94″ wide x 3.36″ high x 7.62″ deep; 4.6 lbs $130

THRESHOLD

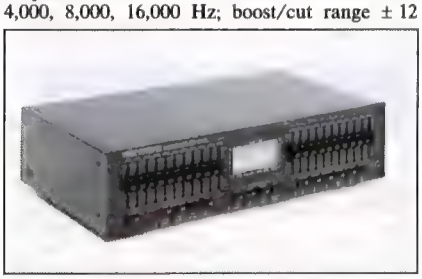
Model PCX Electronic Crossover
Dual-ch, dual-passband electronic crossover with 17 user-selectable crossover points between the range of 75 to 1,602 Hz (750 to 16,020Hz available on special order). Computer modeling and optimization of filter circuit design allows 18 dB/



octave slopes that will sum flat within a few % without phase inversion. Separate high- and low-pass filter outputs for each ch may be independently level adjusted with front panel controls. Bridged-mono operation possible with normal and inverted summed mono low-pass filter outputs. 2 PCX may be used in tandem for tri-amplification. Uses fully discrete, direct-coupled J-FET, MOSFET, and bipolar devices. External power supply in separate chassis. Military-grade, glass-epoxy circuit boards with gold-over-nickel-over-copper plated paths. Gold-plated signal connectors with Teflon insulation. FR low-pass filter DC to cutoff slope initiation, high-pass filter cut-off slope entry to 100,000 Hz; THD no greater than 0.01% from 20-20,000 Hz; input imp 20,000 ohms; output imp 1,500 ohms, nominal. 1.75″ h x 19″ w x 6.5″ d $1,400

VECTOR RESEARCH

VQ-125 Graphic Equalizer
10-band graphic EQ with spectrum analyzer and pink-noise generator. Features independent left/right EQ controls; 2 tape monitors; dubbing direction selector; rec EQ; 2 line inputs; peak-hold display; subsonic filter; input sens switch. Center frequencies: 32, 64, 125, 250, 500, 1,000, 2,000, 4,000, 8,000, 16,000 Hz; boost/cut range ± 12



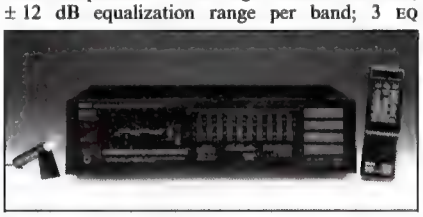
dB; S/N 109 dB; THD 0.009%. 16.94″ w x 4″ h x 9.44″ d;10.5 lb $230

VQ-115 Graphic Equalizer
10-band graphic EQ with master level with peak LED indicator. Features independent left/right EQ controls; tape monitor; EQ-defeat switch. Center frequencies: 32, 64, 125, 250, 500, 1,000, 2,000, 4,000, 8,000, 16,000 Hz; boost/cut range ± 12 dB; S/N 109 dB; THD 0.009%. 16.94″ w x 4″ h x 9.44″ d;10.5 lb $120

YAMAHA

DSP-1 Digital Sound Field Processor
Features 16 preset acoustic surround modes including 6-channel digital Dolby surround; 16 additional preset effect modes; 16 user-programmable memory modes; 16-character LCD; wireless infrared remote control; 5 variable perimeter adjustments per mode; digital sound field generator $899
MVS-1. Master volume controller-selector for use with DSP-1. Features input selector for three inputs and one tape monitor; fader for CD player $149

EQ-1100U 10-Band Graphic Equalizer
Graphic equalizer with automatic room EQ. Features independent left and right channel controls; ± 12 dB equalization range per band; 3 EQ



factory-preset memories; 4 EQ user-preset memories; 10-band spectrum analyzer; pink noise generator; electret condenser microphone; EQ recording capability; 18-key wireless remote control. Black; 11 lb $599
RMA-G60. Rack mount adaptor for EQ-1100U $18

EQ-500U 10-Band Graphic Equalizer
Features independent left and right channel controls; ± 12 dB EQ range per band; fluorescent spectrum analyzer display; meter level adjustment; pink noise generator; electret condenser microphone; EQ recording capability. Black; 11 lb $349

GE-60B 10-Band Graphic Equalizer
10-band independent L/R-channel EQ with side-by-side controls. Features 10-band spectrum analyzer with built-in pink-noise generator and adjustable level meter; independent L/R output level control; continuously variable subsonic filter; rumble-reduce circuit; electret condenser mike included; EQ defeat; EQ rec; tape 1/2 monitor selector with tape copy function. Cut/boost ©15 dB; center frequencies at 30, 60, 120, 240, 480, 1,000, 2,000, 4,000, 8,000, 16,000 Hz; S/N 110 dB; FR 10-100,000 Hz +0, ©1 dB. 17.12″ W × 4.36″ H × 10.75″ D; 9.7 lbs..... $399
RMA-G60. Rack mount adaptor for GE-60B$18

EQ-32 10-Band Graphic Equalizer
Features independent left and right channel controls; ± 12 dB EQ range per band; fluorescent spectrum analyzer display; meter level adjustment; EQ recording capability. Available in black finish; 11 lb..... $299

SR-50B Surround Processor/Amplifier
Features 5 surround modes including Dolby surround; adjustable time delay (5-30 ms); bass extension; A-B speaker switching. 25 W/ch min rms into 8 ohms from 20-20,000 Hz with less than 0.01% THD $299

GE-40B 10-Band Graphic Equalizer
10-band independent L/R-channel EQ with side-by-side controls. Features independent L/R output level control; continuously variable subsonic filter; EQ defeat; EQ rec; tape monitor. Cut/boost ± 15 dB; center frequencies at 30, 60, 120, 240, 480, 1,000, 2,000, 4,000, 8,000, 16,000 Hz; S/N 110 dB; FR 10-100,000 Hz +0, −1 dB. 17.12″ w x 4.36″ h x 10.75″ d; 8.1 lb..... $239
RMA-G60. Rack mount adaptor for GE-40B$18

GE-30B 10-Band Graphic Equalizer
10-band independent L/R-channel EQ with side-by-side controls. Features independent L/R output level control; subsonic filter; EQ on/defeat switch; tape monitor with EQ rec. Cut/boost ± 12 dB; center frequencies at 30, 60, 120, 240, 480, 1,000, 2,000, 4,000, 8,000, 16,000 Hz; S/N 105 dB; FR 10-35,000 Hz ± 0.5 dB. 17.12″ w x 4″ h x 9.12″ d; 6.3 lb $159

GE-20B 10-Band Graphic Equalizer
10-band independent L/R-channel EQ with side-by-side controls. Features independent L/R output level control; EQ on/defeat switch; tape monitor with EQ rec. Cut/boost ± 12 dB; center frequencies at 30, 60, 120, 240, 480, 1,000, 2,000, 4,000, 8,000, 16,000 Hz; S/N 105 dB; FR 10-35,000 Hz ± 0.5 dB. 17.12″ w x 4″ h x 9.12″ d; 6.2 lb $139

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ACCESSORIES

ACE AUDIO

4100-X-24b Infrasonic/Ultrasonic Filter
Active filter designed to eliminate infrasonic (turntable and record) noise and ultrasonic (RF, high-frequency noise, etc.) interference. Infrasonic rate 24 dB/octave below 20 Hz; ultrasonic section rate 12 dB/octave above 20,000 Hz. Distortion 0.002% at 2 V output $142

4000-X-24 Super Infrasonic Filter
Combined active Bessel and passive filter sections provide low phase shift and an ultra-sharp cutoff (24 dB/octave); removes all infrasonic disturbances; individually hand-calibrated. Distortion 0.002%; response −3 dB at 20 Hz (24 dB/octave) $132

4100 Infrasonic/Ultrasonic Filter
Active filter with infrasonic section rolloff 18 dB/octave below 20 Hz; ultrasonic sction rolloff 12 dB/octave beyond 20,000 Hz; IMD 0.002% typical, 20-20,000 Hz..... $108

4000b Subsonic Filter
Low-frequency filter with 4 rear-panel connectors providing 18 dB/octave rolloff at 20 Hz or below, −3 dB. For use with direct-coupled receivers, amps, and/or subwoofers. IMD 0.01% at 1 V output; input imp 47k ohms; output imp 150 ohms; min output load 10k ohms; hum and noise −86 dB; 6″ w x 4.75″ d x 2.25″ h..... $98

3900 Ground Liminator
Designed to break up ground-loop faults in connecting cables, thus reducing hum; employs passive circuitry..... $21
Kit..... $16

ACOUSTIC RESEARCH

AR SRC Stereo Remote Control
Remote control system compatible with all component audio systems features 8-bit custom programmed microprocessor and 15-function handheld remote module. Operating distance 40 feet nominal. Remote functions include system on/off, volume control, balance control, −20 dB mute, full audio mute, source switching via remote tape monitor, left/right speaker comparison, sleep timer, full memory of control settings with power off. Inputs for main, tape monitor, and EPL (external processor loop) return; outputs for main, tape record, and EPL send; indicators for power on, balance centered, and EPL selected. Attenuation range 0-75 dB plus full-off (>85 dB) in 1.5 dB steps; noise 95 dB below 1 V rms, A-wtd; noise decreases with increasing attenuation; THD <0.01%, 1 Vrms, 20-20,000 Hz; FR 6-60,000 Hz ± 0.25 dB; phono cables, battery and instructions included.....$189.95

ADCOM

GFS-3 Speaker Selector
Handles up to 3 pairs of speakers with built-in load protection for low-imp loads; headphone output; Twist'n'Lock speaker connectors for heavy-gauge speaker wire. Can be used with amps rated up to 200 W/ch. 7″ w x 2.75″ h x 5.25″ d $99.95
GFS-6. Similar to above except handles up to 6

pairs of speakers $149.95
GFS-6W. As GFS-6 but with stylish white front panel $199.95
GFS-6S. With silver front panel $199.95
RM-3. Optional rack-mount adaptors for GFS-6..... $20/pr
RM-3W. RM-3 in white..... $25/pr
RM-3S. RM-3 in silver..... $25/pr

a/d/s/

B3 Storage Module–Featured on cover
Stackable wooden cube divided into 3 sections by 2 vertical dividers. Tambour door in front slides up into top of unit. Each section holds about 33 LP's (about 99 total per unit). With optional 12-slot trays, each section holds 24 compact discs (72 total per unit) or 36 cassettes (108 total per unit). Single unit can hold 33 LP's in 1 section, 24 CD's in second, and 36 cassettes in third. Length and width matches measurements of Atelier components. Black or white $249
B4. Similar to B3 except open front with adjustable shelf..... $169

ALLSOP

72560 Audio Care System
Includes record cleaning kit, stylus care kit, and ultraline deluxe audio tape deck cleaning kit $39.95

59000 Rotary CD Cleaning Device
Hand-operated wet-system compact disc cleaner using soft, replaceable pad to clean from center to edge of disc. Gear drive automatically rotates disc while cleaning pad is being turned $29.95

5800 Orbitrac Record Cleaning System
Hand-operated groove-aligning cleaning head that deep-cleans each record groove with replaceable cleaning pads. Suitable for on or off turntable use. Includes orbitrac cleaner, record pad, solution, spray bottle, dirt removal brush, in storage case $18.95
Model 57000. Suitable for on turntable cleaning only, without record pad and case $13.95

71200 Automatic Cassette Deck Cleaner
Features replaceable, non-abrasive cleaning cartridges. Dual pad design makes it unnecessary to turn cassette over to clean both sides of auto-reverse decks. Suitable for both home and car decks. Comes with storage box, carrying pouch, and extra set of cleaning cartridges $15.95

75100 Cassette Storage System
Book-shaped cassette storage system for home or travel. Stores tapes in original boxes with labels showing. Holds 12 tapes and comes with double-sided tape to secure original tape boxes ...$9.95

APATURE BY ACR

SP-518 Speaker Cable
518 strands of electrolytic copper speaker wire with 7 bundles of 37 36-gauge wires per conductor; ultraflexible PVC jacket..... $350
SP-134. Same as SP-518 but with 134 strands $195

LSD Silver Cable
Linear Synthesized Digital cable for compact disc players; balanced line; 8 conductor with Teflon.
0.5-meter set $40
1-meter set $50
2-meter set $65

Gold Interconnect Cables
Patch cords for audio and video patch components.
0.5-meter set $18
1-meter set $20
2-meter set $24

AUDIO DESIGN ASSOCIATES

CC-5 Control Center
Computer control center for system 56. Features central power control; source constantly monitors all room controls; provides 6 source simultaneous listening; 5 V opto-isolated control inputs; digital source selection. 25 lb; 19″ w x 8.75″ h x 11″ d $4,100

SC-1 Remote Control Speaker Selector
Centrally switches up to 8 pairs of speakers an AC power to audio components. Ability to play any or all pairs simultaneously with control of a source transport function and main system off. LED status indicators display on/off for each pair. One 10 amp switched outlet. Used in conjunction w/ MC-11 and MC-110. 19″ w x 3.5″ h x 11″ d $1,395
SC-10 Remote Control Speaker Selector. Same as SC-1 except additional 2 switched outlets and ability to control power and transport function for 2 sources. Used in conjunction w/MC-33 and MC-330. 19″ w x 3.5″ h x 11″ d.....$2,600
SC-88 Remote Control Speaker Selector. Same as SC-1 except additional wire harness assembly for input source readout. Used in conjunction w/ DSP-8 preamplifier and MC-1100. 19″ w x 3.5″ h x 11″ d $1,495

LD-6 Line Driver
Accepts all six input sources for system. Provides 600 ohm buffered outputs; balances source levels; AC power control for six sources. 8 lb ...$2,500

ASU-10 AC-Switching Unit
Provides AC power switching of 8 music sources and 2 power amplifiers. Used in conjunction with SC-88 central controller and DSP-8 preamp. 5 lb; 19″ w x 1.75″ h x 8.75″ d $895

MC-11 Remote Room Control
Provides control over speakers on/off; system off; independent R and L speaker volume; and control of transport functions. System status LED and thermally protected volume controls. Available in wall mount and table top version. Fits into 2-gang electric box. Used with SC-1 ..... $195

MC-110 Remote Room Control. Same as MC-11 except 1 volume control for both speakers. Fits into deep single gang electrical box. Wall mount version only $250

MC-33 Remote Room Control
Provides control of speakers on/off; system off; independent R/L speaker volume; 2 source selection and control of transport functions for both sources. System and source status LED's and thermally protected volume controls. Available in wall mount and table top version. Fits into 2 gang electrical box. Used in conjunction w/SC-1 $250
MC-330 Remote Room Control. Same as MC-33 except 1 volume control for both speakers. Fits into deep single gang electrical box. Wall mount version only $305

MC-1100 Remote Room Control
Provides control of speakers on/off; system off; independent R/L speaker volume; one button selection of 8 sources and transport functions for each source. System and source status readout and thermally protected volume controls. Available in wall mount and table top version. Fits into 2 gang electrical box. Used with SC-88 ... $450

MC-1 Remote Room Control
Provides control of room on/off; system off; digital volume control; direct access of 6 sources and transport functions for each source. System and source status LED's. Available in wall mount and table top version. Fits into standard 3 gang electrical box. Used in conjunction w/ system 56$275
MC-3.5 Remote Room Control. Same as MC-1 except one LED indicator for system status. Fits into standard singel gang electrical $300
MC-007 Remote Room Control. Same as MC-3.5 (above)in wireless hand held version $425

MC-88 Remote Room Control
Provides control of room on/off; system off; digital volume control; one button selection of 8 sources and transport functions for each source. System and source status readaout. Available in wall mount and table top version. Fits into standard single gang electrical box. Used in conjunction with system 808 ..... $325
MC-004. Same as MC-88 except LED system and source status indicators. Slimeline wireless hand held version $475

MC-1600 Remote Room Control
Provides control of room on/off; system off; digital volume control; bass up/down; treble up/down; direct access to 8 sources and transport function for each source. Source and system LED's and readout. Available in wall mount and table top version. Fits into 2 gang electrical box. Used in Conjunction w/ system 8000 ..... $579
MC-1700. Same as MC-1600 except with digital readout of source selection $679
MC-1800. Same as MC-1600 except with infrared receptors for use w/MC-009 hand held wireless remote $850
MC-1900. Same as MC-1700 except with infrared receptor for use w/MC-009 hand held wireless remote $949
MC-009. Same as MC-1600 without LED's or readout in wireless hand held version $475

AUDIO RESEARCH

MCP-2 Solid-State Pre-Preamplifier
Analog Module® pre-preamp boosts output of MC cartridges for input to preamps. Features front-panel selectable loading for MM cartridges; front-panel selection of MC gain and imp; fully balanced and regulated circuitry. FR DC-80,000 Hz ± 0.25; harmonic distortion <0.005% at 1 V rms output from 20-20,000 Hz; MC noise −100 nanoV at 10 ohm input RIAA equalized; 19" w x 3.5" h x 8.5" d $1,395

RMV-3 Rack-Mount Ventilator
Passive convection unit to allow proper air flow to dissipate heat. For all Audio Research® components $150

RFP-1 Rack-Mount Filler Panel
Avaliable in 1.75", 3.5", 5.25", or 7" heights $49.50

AUDIOSOURCE

RTA-ONE Real-Time Analyzer
Hand-held real-time analyzer and SPC meter with built-in calibrated electret condenser microphone. Features 10 single-octave bands; 90 level LED's: LED's for power, low battery, overload. 1 lb without batteries; 6.69" h x 3.88" w x 2" $250

PNG-ONE Pink-Noise Generator
Battery-powered pink-noise generator $55
AC adaptor $15.95
Carry bag $34.95

AUDIO-TECHNICA

AT605 Audio Insulator System
Vibration-damping feet for use under speakers or turntables to prevent acoustic feedback; individually adjustable height. Supplied in set of 4, with bubble level $33.50

AT618 Disc Stabilizer
Solid brass disc with rubber coating designed to damp out sound-coloring resonances. Fits over turntable spindle $28.95

AT6015 TechniClean™
Audiophile record maintenance system cleans record surface and reduces static $25.95
AT6016. Deluxe stylus cleaning system with enclosed fluid container $15.95
AT613. TechniClear record cleaner replacement fluid. Removes dust, dirt, and oily finger prints without promoting static. 60 cc $4.50
AT613/500. 500 ml refill $12.95

AT609 Headshell Wire Set
Replaces original headshell wiring; set of 4 color-coded connectors made of silver litz wire and gold plating $10.95

AT607 Stylus Cleaning Formula
Cleaning solution dissolves foreign material on stylus without harming known stylus adhesives; in bottle with stylus brush $4.95

AT608 Record Care Formula
Dissolves fingerprints, loosens stubborn particles, reduces static bond of micro-dust, airborne material. Nonalcoholic; use directly on fibers of conventional brushes; 2 oz $4.50

Vital Link Cable Series

AT620 Super Conductivity Cable Set
Litz wire construction with double shielding and gold-plated connectors; for low imp and max rejection of RF interference; set of 2 ..... $35.95
AT610a Cable Set. Low-capacitance cables for connecting turntable and amp; 4-ft shielded cable with molded pair phono plugs each end; gold-plated connectors and separate ground wire; single set needed per turntable $13.95
AT641 Cable Connectors. Two gold-plated female phono feed-through cable connectors; extends length of other Vital Link cables ... $10.95

BIB

A-616 Compact Disc Cleaner
CD cleaner features molded disc tray; chamois-covered cleaning pad/wheel; cleaning fluid; CD eject lever; chamois cleaning brush $14.95

A-611 CD Storage Module
Strong practical CD stoage unit holds up to 10 CDs in their jewel boxes. Fingertip touch release system automatically ejects selected CD for easy removal. Interlocking modules can be expanded vertically or horizontally. Molded of strong ABS plastic. Wall or shelf mounting $4.59

A-612 Disposable Tape Head Cleaner
Disposable audio head cleaner for all types of cassette players. Nonabrasive cleaning fluid applied by pushbutton cleans entire tape path. Use twice (once each side) then dispose $1.79

BOULDER AMPLIFIERS

Balanced Cables
Gold-plated 3-pin male to 3-pin female.
CB75. 75 ft $148.00/pr
CB35. 35 ft $95.00/pr
CB12. 12 ft $64.00/pr

CA06 Interconnect Cables
3 ft; Gold-plated RCA phono; for general interconnection $43.00/pr

Boulder Terminator
Speaker-cable termination network provides termination imp for frequencies where speaker cable must be treated as transmission line. Designed to eliminates reflections back down the speaker cable into amp for improved clarity $32.00/pr

BRYSTON

.4B Switch Box
High-level switching with gain/balance control. Features 4 inputs (CD player, tuner, tape, aux); 1 tape loop. 9 lbs; 19" w x 1.75" h x 9" d... $500

Switch Boxes
No active components; designed for high-current applications.
3-Way. With headphone jack $195
5-Way. With headphone jack $125

MC Cartridge Step-Up Transformer
Designed to provide sufficient voltage to any preamplifier from low-output MC cartridges. 2" x 3" x 4" ..... approx. $435

BUFF STUFF

CD Saver
Compact disc restorer eliminates light scuffs and scratches from CD's. 30 milliliter bottle of formula is harmless to plastic coating on CD's and is good for hundreds of applications $9.95

BUSH

Oak Elegants Line
Units have soft-shaped 2.5"-wide solid oak frames, oak veneer on sides and tops, multi-step finish with double-lacquer topcoat, brass accents on oak frames, through-glass brass hardware, concealed fasteners, safety-tempered solar-bronze-tinted glass

doors etched with subtle silk-screen pattern, radiused plinth base. Ready to assemble.
AV1675. Full-sized entertainment center holds 27" TV; adjustable shelf; glass-enclosed storage with adjustable shelves. 49.25" w x 49.9" h x 20" d $529.95
A1665. Audio cabinet with adjustable shelves; 2 glass doors. 23" w x 45" h x 16" d $269.95

Furniture Systems Series
With rounded corners, soft-shaped tops, fully radiused shelf fronts with decorative accent lines, Library oak finish, full-length solid-oak door pulls, cord openings in rear, 72" tall.
L139WS. Wood and glass doors; middle doors open 180° for TV viewing; 30" w 19.4" d $269.95
L132WS. Audio cabinet with wood and glass doors; 20" w x 19.4" d $219.95
L134WS. Open shelving above wood doors; 30" w x 19.4" d $199.95
L124WS. Wood doors; 15.4" d $169.95
L121WS. Wood doors; 15.4" d $149.95
L123WS. Open shelving; 15.4" d $149.95

AV1375 Deluxe Home Entertainment Center
A/V center with 25" h x 27" w TV compartment; adjustable VCR shelf; glass-enclosed storage with adjustable shelf; 20.25"-W glass-enclosed audio area with 3 adjustable shelves; silk-screen pattern on glass doors with wood frames. Solid oak and oak laminates with multi-step laquered finish. 49.5" w x 47.62" h x 19" d; 180 lb $399.95

AV774 Room Divider/Entertainment Center
2 drawers below TV compartment; 4 adjustable bottom doors; wooden door handles; rounded edges on frame; shelving; drawers and doors. Library-oak finish. Cords run through center partition. 49" w x 69.5" h x 15.5" d; 180 lb . $259.95

AV760 Deluxe Audio/Video Center
TV compartment for 26" or 19" TV; safety-tempered glass door; 3 adjustable shelves; enclosed space for accessories; pedestal base; adjustable shelf above TV compartment. Library-oak finish. Soft-shaped tops and rounded edges. 47.36" w x 47.25" h x 15.5" d; 145 lb $229.95

A1365 Audio Cabinet
22"-W interior glass-enclosed facade with silk-screen pattern and wood frames; 2 adjustable interior shelves; hand-stained and chiseled accent lines; rounded edges and soft-shaped design. Solid oak and oak laminates with lacquered finish. 23.5" w x 42.25" h x 16.5" d; 78 lb $199.95

AV740 Audio/Video Center
L-shaped design; safety-tempered glass door; 3 adjustable shelves; vertically accented doors and side panels; enclosed storage for videocassettes, records, tapes, accessories. Arborwood finish; 91 lb; 47" w x 36" h x 14.94" d $99.95

AV738 Compact Home Entertainment Center
L-shaped A/V center with open shelf for 26" TV; safety-tempered glass doors with 3 adjustable shelves; enclosed storage; wood handles; radiused door panels; rounded edges; soft-shaped tops. Library-oak finish. 47" w x 35.88" h x 15.5" d; 93 lb $149.95

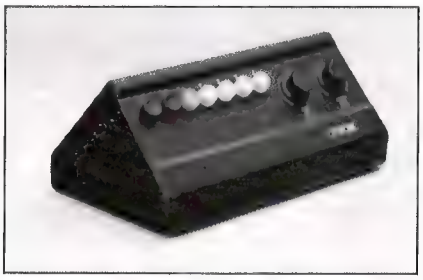
A641 Audio Cabinet
Safety-tempered glass door; 2 adjustable shelves; soft-shaped lift top; 2-wheel casters. Library oak finish. 18.88" w x 38.62" h x 17.5" d; 58 lb $119.95

CALRAD ELECTRONICS

10-112 Patchbay
Point-to-point wiring patchbay provides 32 numbered RCA female jacks for multiple use of tape equipment and signal routing. Double-panel-mount jack assembly allows wireless operation. Steel and aluminum chassis mounts in any 19" rack. Ground-lifted jacks optional. 19" w x 1.75" h x 1.5" d $166.50

CANTON

Connect Series Switchboxes
Connect 50. Handles 1-4 pairs of speakers; DIN and phono jack; headphone outputs. Features volume controls for adjusting channels 2 and 4;



connection to output of amps, receivers; DIN speaker jacks $125
Connect 20. Switchbox for 1-3 tape decks or 2 decks and 1 high-level signal source. Features left/right regulators to reduce signal levels before recording; 5-pole DIN jacks $75
Connect 10. Similar to Connect 20 except designed for 1-3 pairs speaker switching. Features standard DIN speaker jacks $65

Record-Care Products
Cantosweep. Record-care brush with antistatic carbon bristles. Removes static charges, dirt particles from grooves before play $30

Cantolink Speaker Cable
40. Premium 40-mm speaker cable $1.45/ft
25. Premium 25-mm speaker cable $0.99/ft

CARRY DISC BY MUSIC & SOUND IMPORTS

Carry Disc CD Holder
Holds 14 CD's in a quick open-and-close carrying case with a protective inner lining of soft velour $15.95

CARTER-CRAFT

40-428 "Pick-Pocket" Speaker
Folding speakers for mini stereo systems. Folds up to fit in pocket or purse. Over 2 feet of stereo cable. Includes suede-cloth carrying case. 4" x 2.5" folded size; 1 lb $21.90

60-409 CD Cleaning Kit
Includes cleaning solution $19.95

60-416 CD Storage Case
Auto eject and add-on unit holds 5 compact discs. Stackable modular design allows expansion of storage system $13.65

Soft-Touch Cassette Storage Cases
Storage cases eject tapes by touching drawer front.
40-218. Portable with carry handle stores 12 tapes $40.45
40-217. Auto unit padded all around for safety, impact, heat resistant. Holds 6 cassettes .. $35.65
40-216. Expandable unit holds 6 tapes and is expanded by purchasing additional units ... $21.35

34-155 Deluxe AC Adaptor
U.L.-approved AC/DC adaptor for 3-, 4.5-, 6-, 7.5-, 9-, and 12-V battery-operated components. Features universal 4-way plug. Includes built-in reversing feature. 1.5 lb $12
34-157. As above with 300/100 mA conversion switch $10.95

40-158 Tape Care Kit
Features chemical cleaners and lubricants for heads, guides, and capstans. For use with auto and home tape decks. Includes 1 bottle each of cleaner and lubricant, a supply of swab-style Kleen Stix, and a specially treated cloth .. $7.55

40-130-C Cassette Head Cleaner/Demagnetizer
Cordless cassette head cleaner and demagnetizer removes dirt and residual magnetism without use of any current. For home and auto cassette decks $4.90

40-126 Cassette Head Cleaner
Includes cleaning fluid $4.10

60-415 Jewel Box
Clear hinged jewel case $2.60
60-415-3. Jewel case 3-pack $5.45

Speaker Wire
2-conductor, 24-, 20-, or 18-gauge wire for hook up to 8-ohm speakers. Clear-plastic insulation.
32-150. 25-ft length, 24 gauge $2.60
32-152. 50-ft length, 24 gauge $4.05
32-154. 100-ft length, 24 gauge $6.15
32-155. 1,000-ft length, 24 gauge $52
32-156. 50-ft length, 20 gauge $5.75
32-158. 100-ft length, 20 gauge $10.95
32-159. 50-ft length, 18 gauge $7.94
32-157. 100-ft length, 18 gauge $15.10

Connection Cables
Dual, color-coded stereo cable with RCA phono plugs on all ends.
60-342G. 12-ft gold-plated plugs $6.65
60-340G. 6-ft gold-plated plugs 5.20
38-143. 12-ft $4.60
38-142. 6-ft $3.25
38-141. 3-ft $2.55

CARVER

MCt Moving-Coil Transformer
Matches low output of moving-coil cartridge to standard moving-magnet phono stage. Selector switch for 3.9, 39, 110 ohms for virtually any moving-coil cartridge. Gain 24 dB; $129

CELLO

Speaker Stands
Granite $5,500/pr
Wood lacquer $2,500/pr
Oak $1,500/pr

COUNTERFEET BY SUMIKO

Cone-Shaped Feet
To isolate components from mechanical disturbance.
C-3. For components and speakers; with double-thread tapped screws $9/ea
C-4. Tall Counterfeet for components and speakers; with double-threaded tapped screws; good on carpet ..... $14 ea
C-37. Replaces feet of Sota turntables .... $14 ea
C-35. Replaces feet of Oracle turntables .. $22 ea
C-36. Replaces Sonographe turntable feet $14 ea

COUNTERPARTS BY SUMIKO

System Mat
Record platter mat made from lead/barium energy-absorbing layer, anti-static treatment, polymethylmethacrylate base material, warp-reducing concavity. Use with record clamp only $95

Reflex Clamp
Couples record to mat with reflex action and energy-absorbing lead/barium coating. When used with System Mat, is said to eliminate vibrations and resonances from playing surface $75

CD Interface Mats
Clear plastic mats permanently adhere to label side of disc; constrained-layer damping said to reduce vibration; protects from scratches that can damage data. 10 mats per package $10

CUSTOM WOODWORK & DESIGN

All of CW & D's Woodmore cabinets are handcrafted of select hardwood solids and veneers. Available in natural oak, dark oak, natural American walnut, and black oak, with matching shelves. Cabinets can be grouped or stacked to make complete entertainment centers.

Magic Lowboy Audio Cabinet
Concealed audio cabinet rises to user height by remote control. Fully enclosed. Max height 53"; closed, measures 47.25" wide x 34" high x 19" deep..... $2,100-$2,400

21" Woodmore Audio Cabinet
1 adjustable shelf; casters. 24" w x 21" h x 19" d ..... $220-$270

30" Woodmore Audio Cabinet
2 adjustable shelves; casters. 24" w x 30" h x 19" d ..... $270-$345

42" Woodmore Audio Cabinet
3 adjustable shelves; casters. 24" w x 42" h x 19" d ..... $335-$435

Woodmore Glass-Lid Audio Cabinet
2 adjustable shelves; feather-light hinged lid; casters. 24" w x 42" h x 19" d..... $415-525

Woodmore Entertainment Table
Finished on all 4 sides; with wood base. 47.25" w x 16" h x 19" d ..... $345-$430

Woodmore Smallboy Audio Cabinet
2 adjustable shelves; casters. 47.25" w x 21" h x 19" d..... $335-420

Woodmore Lowboy Audio Cabinet
4 adjustable shelves; casters. 47.25" w x 30" h x 19" d..... $415-$515

Woodmore Record Cabinet
4 adjustable shelves; wood-veneer back; stacking accessory. 47.25" x 42" x 14" ..... $410-$550

Woodmore Doors
Glass Doors. With chrome, black, or gold hardware ..... $30-$73
Wood Doors. 160° concealed European hinges and solid-wood pulls ..... $90-$230
Rollwood. Veneered razor-sliced slats on wood track ..... $160-$180
Drop Leaf. For 21" Woodmore or Woodmore Smallboy..... $55-$64

Accessories
Cassette Drawer. Holds 72 cassettes; 4.5 h $80-$90
Slide-Out Shelf. 2.5"; extends 10" $72-80
CD Drawer. Holds 81 CD's; 7.5" h .. $90-$110
Rack Mount. With wood rails, metal channels, hardware to mount 5 units..... $87-$100
Cabinet Lights. With matching wood rail; 0.75" h; includes cord switch ..... $40-$47
Wood Back. Custom slotted at additional cost ..... $32-$55
Wine Accessories. Solid wood hanging rails for glasses and bottle racks..... $80-$96
Outlet Strips and Boxes. Filtered and spike protected; 8-outlet strip; isolated $195
2-outlet box with indicator lamps (always on)$70
Woodmore Speaker Stands. 9", 15", 30"; with adjustable spiked levelers ..... $100-$140

Stacking Rails and Bases
Solid wood accessories for stacking units into wall systems; with leveler brackets and adjustable levelers; rails 0.75" h; bases 1.75" h .. $22-$130

DANEFURN

Audio Cabinets
DFAV 115G. Complete audio/video entertainment center with pull-out shelf, glass doors, and storage drawers. 55" w x 22" h x 47.25" d; 190 lb $586.95
DFAV 8. Audio cabinet on casters with double glass doors. Features vertical drawer for tapes/CD storage; pull-out shelf for turntable/record storage. 41.25" w x 35.5" h x 20" d; 132 lb $579
DFAV-6. Audio cabinet with glass door and vertical drawer for tapes. 28" w x 20" d x 42" h $492
DFAV 2. Audio cabinet with glass doors and lift top. 21.25 w x 45.75 h x 19 d; 88 lb 319.95

DB SYSTEMS

DB-4B MC Pre-Preamplifier
MC-cartridge pre-preamplifier with low-noise cascode amps, diode-protected inputs. Features internal low/medium/high gain switch. THD 0.0008% 20-20,000 Hz at 1 V; noise -86 dB at 1 mV; FR 10-100,000 Hz +0/-0.1 dB; input/output imp 9k ohms, 2,000 pF/220 ohms; max load 10 kilohms, 3,000 pF; internally adjustable gain/sens/overload dB/40 ± V/45 mV high $205
With DBP-4 coupler and DB-2A power supply $275

DBP-11 Phono Capacitance Switch Box
Features front-panel-switchable 100-400-pF loading for 2 MM phono cartridges. Open position is provided. Gold-plated jacks and plugs ...$79.95
DBP-11MC. Similar to DBP-11 but with resistive instead of capacitive values. Includes 5-ohm load $79.95

DBP-2J/5 Passive Switch Box
Switching module with 10 input and 2 output jacks. Can be used for switching 5 turntables, tape recorders, amps, signal processors, etc. Allows for selectable cartridge loading when used with DBP-6 or 6MC. Can be used for switching baseband video (not ch 3 or 4) $69.95
DBP-2JAU/5. Same as DBP-2J except jacks are gold plated $89.95
Optional volume control installed in switch box $25

DBP-12X Audio Cable
10-meter length of low-capacitance (400 pF) stereo interconnect cable, terminated with premium DPB-13PX gold plugs..... $95
1-meter length $49

Gold-Plated Connectors
DBP-9AU. Banana plugs. 8 solderless ...$24.50
DBP-9H. Banana handles. 4 red, 4 black..$3.50
DBP-9P. Dual bananas (2 pk).....$17.95
DBP-9J. Dual banana jacks (2 pk) $17.95
DBP-13J. .25" phono jacks (8 pk) $15.95
DBP-13JR. .36" phono jacks (8 pk) $29.95
DBP-13P. Gold-plated ph. plugs (8 pk)..$17.95
DBP-13PM. Phono plugs, 4 red, 4 black .$29.95
DBP-13PX. Phono plugs (2 pk) $19.95
DBP-14. Gold-plated spade lugs (8 pk) ...$5.95
DBP-15. Gold-plated Y-adaptors (2 pk)..$12.95
DBP-16. 12-dB input attenuators $12.95
DBP-17. Gold-plated ph. coupler (2 pk) .$12.95

DBP-6 Phono Equalization Kit
Permits adding 100-400 pF of capacitance to phono input of any preamp or receiver. Consists of 2 Y adaptors, set of gold-plated phono plugs with polystyrene capacitors wired to give 100, 150, 200, 300, 400 pF. Resistive load (1%) included for experimenting with MC cartridges plus pair of empty plugs for making custom values...$36.95
DBP-6MC. Similar to DBP-6 except for MC cartridges. Loads are 1% 10-, 20-, 50-, 100-, 200-metal-film resistors. Two empty plugs included.....$36.95

DBP-10 Phono Alignment Protractor
Accurately measures lateral tracking error of mounted phono cartridges to within 0.25°. Instructions provided to optimize geometry, set correct overhang for minimum error and distortion, useful when checking vertical tracking angle. Comes with carrying case.....$24.95

DBP-CK Cramolin Audio Kit
Contact cleaning system. Disolves and prevents oxide formation. Reduces noise and distortion $17.50

DBP-VSP Voltage Spike Protector
Plug-in power line adaptor limits voltage surges that can damage solid-state components..$14.95

DBP-SC Souther Clever Clamp
Lightweight clear record clamp. 23 g $10

dbx

DAV-600G Program Route Selector
Rack-mountable audio/video program route selector connects 3 VCR's, 1 VDP, and 3 tape decks (1 audio, 1 video, 1 audio NR). Features pre and post switching; RCA phono jacks $399

Model 400XG Program Route Selector
Rack-mountable powered switching box has same capabilities as below except dubbing can be interruped by sound processors and/or encode/decode side of NR unit. Lighted pushbuttons show program route $279

Model 200XG Program Route Selector
Rack-mountable passive switching box has inputs/outputs for 3 sound processors, 1NR unit, and 3 tape decks. Direct dubbing between decks $149

DENNESEN BY SUMIKO

Soundtraktor
Geometric cartridge-alignment device; sets up turntable to Baerwald parameters; metal construction $195

Pivotram
For accurate spindle-to-pivot distance for tonearm mounting holes..... $195

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DENNESEN ELECTROSTATICS

Pivotram
Locates proper spot to drill tonearm mounting hole. Made of aircraft aluminum. 1 lb; 12" x 3.3" $100

Sound Tractor
Phono cartridge alignment protractor gives proper distance and offset angle for any pivoted in one simple step. Made of aircraft aluminum. 1 lb; 12" x 2" x 3" $100
Same unit but made of plastic $35

Polaris FM Antenna
Indoor FM antenna. Totally passive, yet has as much as 14 dB more signal gain than dipole antenna normally used. Includes coax cable and balance. 1 lb; 18" x 2" x 2" $40

D.G. INDUSTRIES

Compact Disc Storage Unit
Stackable plexiglass CD tray. Features storage of 29 compact discs; tilts discs for easy reading of titles ..... $29.95 ea

DISCWASHER

DiscKit Record Care
Contains D4+ record-care system, Zerostat antistatic instrument, SC-2 stylus-care system housed in DiscOrganizer $59.95

Discset
Provides essentials of record, and stylus care; includes D4+ record-care system, SC-2 Stylus Care System in milled walnut base $24.95

Zerostat-3
Anti-static instrument neutralizes static charges on virtually any surface; works without coating by showering surface with millions of positive and negative ions $29.95

Discwasher Compact Disc Cleaner
Includes a CD cleaning unit, CD-1 cleaning fluid, cleaning pad grooming brush and replacement cleaning pad. 14 oz $19.95
CD-1. 1-oz fluid refill $3.95
CD Cleaner Replacement Pads. $4.95

CD Storage System
Lightweight, durable unit stores up to 20 CDs in their jewel boxes. Can be wall mounted. 6" w x 2" h x 14.75" d $19.95

D4+ Record Care System
Safe record-cleaning system designed to remove contaminants without reducing record fidelity. Consists of D4+ fluid that lifts, suspends contaminants; soft-fiber pad with hand-milled walnut handle to remove debris and dry record; DC-1 pad-cleaner brush $16.50
1.25 oz replacement fluid $2.50
6 oz replacement fluid $10
16 oz replacement fluid $17
DC-1 brush $0.69

D'Stat II Mat
Turntable mat reduces static charges on contact, provides cushion to reduce sonic, mechanical feedback between record and platter $8.50

SC-2 Stylus Cleaner System
Includes scientifically safe cleaning fluid, precision nylon-fiber brush designed to safely remove stylus contamination. Brush has attached stylus-inspection magnifying mirror $8.50

V.R.P. Record Sleeves
Scratch-free record liner sleeves that prevent static charge buildup during record storage and removal from sleeve. Super smooth surface will not ooze plastic additives; 10 pack $3.50

Cables

Gold-ens Audio/Video Cables
Perfectionist cables for audio, video; provide ultra-low capacitance with heavy gold-plated connections with molded nylon insulating sleeves.
2-meter triple strand $23.95
1-meter triple strand $21.95
5-meter double strand $19.95
4-meter double strand $17.95
2-meter double strand $15.95
1-meter double strand $13.95
0.5-meter double strand $11.95
2-meter single strand $10.95
1-meter single strand $9.95

Tape Recording Accessories

D'Mag Cassette Deck Demagnetizer
Demagnetizes tape heads, capstans, and entire tape path. Requires no batteries or power cords $19.95

Discwasher Tape Deck CareSet
Includes Perfect Path Cassette Head Cleaner and C.P.R. Capstan Pinch Roller Cleaner $12.95

C.P.R. Capstan/Pinch-Roller Cleaner
"Positive Drive" cleaning system for cassette decks designed to safely scrub pinch rollers, capstans with advancable cleaning fabric and harmless fluid $8.95
10-cc C.P.R. fluid refill $1.95

System II Cassette Tape Care
Combination head and capstan, pinch roller cleaner for cleaning and maintaining all home and car cassette players. Nonabrasive dry fiber matrix tape safely removes dust and oxide buildups on heads and along entire tape path. Capstan, pinch roller cleaner with an advancable fiber-grid surface and specially formulated fluid removes tackiness and contamination from capstan and pinch roller assembly to prevent jammed and eaten tapes. 2.5" w x 4" h x 0.5" d $13.95

Perfect Path Cassette Head Cleaner
Nonabrasive dry system for audio cassette decks designed to remove oxides, and gummy residue along tape path and on tape heads $5.95

DNM BY MUSIC HALL

Interconnect and Speaker Wire
Solid core; designed for enhanced clarity and depth $2.50/ft

DRAKE COMPANY

PRC/U Universal Remote Control
Hand held remote control for use with TV, VCR's, cable converters, audio/video, CD players or any infrared remote controlled components. Range 30 feet; used with up to 3 remote comtrolled units. 2.31" w 6.5" L x 0.69" d $120

ENTRE BY ANALOG EXCELLENCE

ET-100 MC Step-Up Transformer
Step-up transformer for MC cartridges. Can take 3 stereo connections at once with selection on front panel. 4-way switch on front panel for imp matching to MM cartridges $450

FINELINE DISTRIBUTING

Furniture Systems
Fineline Audio/Video cabinetry are finished inside and out with oak and oak veneers. All surfaces are hand rubbed with Danish oil and wax. Veneered panels and shelves have a ¾" hardwood composite core. Shelves are rated to hold up to 125 lb. Custom finishes and options are available.
Audio + Video Cabinet. 1 fixed video shelf, 1 fixed, 2 adjustable audio shelves and dividers. 42" h x 49.75" w x 21" d $370
Tall Video Cabinet. 1 fixed, 1 adjustable shelf. 42" h x 30" w x 21" d $240
Tall Audio Cabinet. 1 fixed, 2 adjustable shelves and record dividers. 42" h x 20.5" w x 21" d $210
Short Video Cabinet. 1 adjustable shelf ... $175
Short Audio Cabinet. 1 shelf and record dividers $150
Speaker Stands. Matching finish to cabinetry. 15" tall $130/pr

GENEVA GROUP

PF-211 Professional Bulk Eraser
Erases reel-to-reel, cassette, 8-track cartridge tapes to noise level of virgin tapes. 2,300 gauss flux intensity. 2" w x 3.5" h x 5" d; 2 lb, 4 oz $59.95

Audio Cassette Drop-In Demagnetizer
Demagnetizes cassette heads in <1 sec when loaded in cassette deck. Battery included; red indicator light; standard-size cassette shell $18.99

VCR-205 Audio/Video Demagnetizer
Removes residual magnetism from heads and tape path parts. 290-gauss field intensity; vinyl covered probe won't harm heads $39.95

Tape Splicing Blocks
Specially grooved to hold tape firmly during splicing. Features 2 deep slits for straight, diagonal cuts. Supplied with double-backed adhesive for mounting without drilling; stainless-steel cutter. 5.75" w x 1" d x 0.31" h.
PF-311. For 0.25" tapes $32.28
PF-312. For cassette tapes $32.28

PF-400 Compact Disc Storage Albums
LP-size storage unit for CD's. Each holds 4 CD's in clear plastic carrying case. 3-pack: holds 12 CD's total $14.95

PF-890 Street Strap Pocket Stereo Strap
Fits all pocket stereos with handles $9.99

QM-505 Cellular Foam Swabs
Package of 25 swabs, for cleaning audio, video tape decks $9.40

PF-116 Tape & Head Cleaner
Aerosol spray; extension tube reaches recessed parts of audio recorders and videocassette decks. 16-oz can $9.09

PF-410 Compact Disc Cleaner
Easy-to-use premoistened cleaning pads cleans at least 5 CD's each. 18 pads. 3 oz $10.99

PF-562 Audio Cassette Head Cleaner
Cleans heads and tape path components in 5 sec. Features gold-colored metal hubs; nonabrasive cleaning tape; IP alcohol cleaning solution; standard cassette housing. 3.25 oz $7.99

QM-108 Tape/Head Cleaner
Liquid tape and head cleaner in 8-oz can .. $6.10

QM-103 Tape/Head Cleaner
Aerosol tape and head cleaner blasts loose oxides, dirt. Supplied with extension tube $6

Audio/Video Splicing Kit
For editing and repairing audio cassettes, VHS and Beta videocassettes; splicing tape for 36 audio or 24 video splices; leader tape for audio cassette, VHS, Beta; with instructions $5.99

QM-102 Tape Head Cleaner
Liquid tape head cleaner in 2-oz bottle. Leaves no residue; can be used on capstans, pinch rollers $4.50
QM-122. Same as QM-102 but in 1.7-oz spill-proof bottle $4.50

PF-105 Mini Super Blast
Removes dust and dirt from hard-to-reach areas. 1.5-oz can $2.99

PF-870 Double RCA Jack
Connects RCA cables together in series for extra length $2.99

PF-860 Mini-to-RCA Adaptor Cable
For connecting pocket stereos (or anything with mini jack) to stereo system (or anything with RCA inputs) $2

PF-115 Electronic Cable Ties
20 reusable ties; each 5"; with pop locks; trimmable with scissors $2.29

Reel Tabs
Precut adhesive-backed Mylar or metal tabs for tape splicing, editing. Designed for use with Geneva splicing equipment.

0.25" Mylar Reel Tabs
QM-531. 1,000/pkg $111.39
QM-526. 200/pkg $23.39
QM-521. 50/pkg $7.56

Cassette Mylar Reel Tabs
QM-522. 50/pkg $6.68
QM-524. 50/pkg $9.22

HEYBROOK

HBS-3 Speaker Stand
Loudspeaker stand designed for stable, rigid support. 4 adjustable pointed spike feet top and bottom. 13" w x 10" h x 11" d $139.95/pr
HBS-1. Like HBS-3 except 18" tall . $149.95/pr
P-5S. 20" speaker stand $89.95/pr

HB-2S Speaker Stand
Metal, wall-mount stand designed for rigid support. 9.25" w x 10" h x 9.25" d $99.00/pr

TS-1 Turntable Wall Shelf
Metal turntable wall shelf designed to eliminate structural feedback from reaching the turntable. Features adjustable spike feet for leveling. 20" w x 16" h x 16" d; 12 lb $98

Heybrook Interconnects
Hand-assembled RCA to RCA interconnect cables with gold-plated plugs. 3-ft length $59.95/pr

AK-1 Cartridge-Mounting Kit
Cartridge-mounting kit with high-tensile screws and nuts; allen key wrench; open-end nut wrench; overhang protractor $9.95

HIGHPHONIC BY ANALOG EXCELLENCE

MC Step-Up Transformers
HP-T7H. For use with 15-40 ohm MC cartridges. Distortion <0.01%; 6" x 3" x 5"; 4.4 lb $650
HP-T7L. Same as above except for 1-10 ohm cartridges $650
HP-T5. For 10-40 ohm MC cartridges. Gold finish; aluminum case. Distortion <0.02%. 6" x 3" x 4"; 3 lb $450

HP-S5 Headshell
Gold finish; aluminum alloy with OFC copper lead wires; cartridge mounting screws go directly into fingerlift. 13 g $85

HUNT BY MUSIC HALL

EDA Carbon-Fiber Record Brush
Cleaning brush with carbon fibers supported by velvet pad to reduce effective length to 2 mm; filiments designed to track record grooves; center pad statically charged to lift dust $19.95

INTRACLEAN by AMERICAN RECORDER TECHNOLOGIES

S-711 Professional Head Cleaner
Halogenated hydrocarbons clean heads, capstans, pinch rollers; no alcohol $7.95

C-911 Autoreversing Cassette Cleaner
In cassette shell; contains S-711 fluid to clean heads, capstan, pinch rollers; nonabrasive cleaning band; automatically switches direction in autoreverse decks; replaceable pads $12.95
C-912. Replacement pad kit $3.95

D-501 Cassette Demagnetizer
In cassette shell for insertion into decks .. $24.95

D-511 Wand Demagnetizer
Hand-held plug-in demagnetizer for heads, capstans, tape guides, other metal along tape path; auto shutoff when not in use $21.95

C-S1 Audio Cotton Swabs
6 long highly polished maple stick; tightly wound tip mounted with solven-resistant glue $2.95

CD-101 Compact Disc Cleaner
Chamois-like brush; cleaning solution; disc holder $16.95
CD-102. Replacement cleaning pads $6.95
CD-103. CD cleaning fluid $4.95

JVC

CK-50 Compact Disc Cleaner
Automatic CD cleaner features speacially processed rotating cleaning pad; auto stop mechanism $49.95

KENWOOD

SRC-4000 Audio Rack
Basic series component cabinet features tempered smoked-glass front door; casters; record-storage compartment. 19.31" w x 45.81" h x 16.63" d $230

AT-56 Audio Timer
Features 24-hour clock-timer wtih 12 hour FL digital display; digital time adjust controls; sleep-timer setting from 1 min to 1 hour 59 min; two AC outlets $120

KINETIC AUDIO

Cabinets
Furniture-styled equipment/record/tape cabinets. Can be stacked; adjustable-height shelves or rack rails; walnut veneer over particle-board side panels.
EC-XL. 48" h x 21" w x 18" d. Deluxe unit with plexiglas door, black dual-wheel casters . $500.00
EC-L. 48" h x 21" w x 18" d $300.00
EC-M. 38" H x 21" w x 14" d $200.00
EC-S. 24" h x 21" w x 14" d $150.00

Speaker Stands
Straight or tilted speaker stands with dual-angle up/down capability and flat black satin finish.
S-L. Large $200.00/pr
S-M. Medium $150.00/pr
S-S. Small $125.00/pr

Stereo Amplifier/Line-Level Control
For bi/multi-amping, other amp level adjustments. Features 10k-, 25k-, 50k-ohm imp; phono jacks; connectors; mounting hardware .. $150.00

Stereo Amplifier/Speaker Selector
Switches 2 stereo amps into single pair of speakers or 2 pairs of speakers from single stereo amp $150.00

KLYNE AUDIO ARTS

SK-3 Pre-Preamplifier
Preamp for phono amplification only. Ultra low distortion, high resolution design. Adjustable gain for low output MC and high output cart. Gain at 1 kHz, 37, 50, 64 dB. External power supply. Input imp 0-47k. output imp. 300 ohms. Adjustable high freq. contour $950

SK-2A Pre-Preamplifier
Pre-preamplifier for low-output MC cartridges. Features ultra-low distortion and high-resolution design. Gain 24 dB; Bandwidth 0.8-350 kHz; adjustable high frequency contour; output imp 300 ohms $750

KOSS

Portable Stereo Speakers
Mini speakers designed to plug into headphone jack of a portable stereo system.
KSC/8000. Dual-amplified speakers. 2-250 mW/ch; 8.9 oz (w/o battery $25/pr
KSC/5000. Mylar-covered diaphram driver and amplified power booster $16/pr
KSC/50. Features dual full-range transducers; 3.2 oz $10/pr

LASER BY SWIRE MAGNETICS

Tape Accessories
Audio Head Demagnetizer $15.99
Wet Head Cleaner $4.99
Dry Head Cleaner $1.39

LASERLINE by CREATIVE POINT

CD-2400 Compact Disc Storage Unit
Holds up to 24 CD's. Securing Release Mechanism locks disc in slot and releases disc cartridge at a touch. Made of impact-resistant, high-grade plastic. Modular design for adding additional units. 18.66" w x 4.9" h w 6.75" D; 3.59 lb$29.95
CD-1200. Same as CD-2400 except holds up to 12 CD's. 12.6" w x 3.95" h x 6.75" d; 2.15 lb$19.95
CD-800. Same as CD-2400 except holds up to 8 CD's. 6.4" w x 4.9" h x 6.75" d; 1.07 lb ..$9.95

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AC-1800 Cassette Storage Unit
Holds 18 cassettes; impact-resistant, high-grade plastic; cassettes lock in place; stackable; hinged door. 16.7" w x 5.4" h x 5.3" d.....$19.95

THE LAST FACTORY

System Formula Series

Formula 1 Record Cleaner
For first play and deep cleaning; guaranteed to remove all surface deposits; cleans 60 records; microfiber applicators; 2 oz $13.95

Formula 2 Record Preservative
Guaranteed to stop record wear completely for 200 or more plays; protects 60 records; microfiber applicators; 2 oz.....$16.95

Formula 3 All-Purpose Record Cleaner
Guaranteed to keep records clean without residue; cleans hundreds of records; microfiber applicators; 2 oz.....$8.95

Formula 4 Stylus Cleaner
Guaranteed to remove all stylus deposits safely hundreds of times. Includes cleaning brush and 0.25 oz of cleaning fluid $7.95

Formula 5 Stylast Stylus Treatment
Guaranteed to extend stylus life up to 10 times normal; to be used before playing each record side; thousands of treatments; 0.25 oz ...$19.95

Formula 6 CD Protection System
Guaranteed to clean discs safely and protect them from minor scratches; smudge protectant; hundreds of treatments; applicator and base .$14.95

Formula 7 Cassette Head Cleaner
Guaranteed to clean tape heads and tape-path rollers; 2 cassette mechanisms; exclusive formula; 0.5 oz $13.95

Combination Kits
See above for contents of each formula.
Formulas 2 and 3.....$19.95
Formulas 4 and 5.....$24.95

Trial-Size Kits
0.5 oz of each formula.
Formulas 1 and 3.....$7.95
Formulas 2 and 3.....$9.95
Formulas 1, 2, and 3.....$13.95

Microfiber Applicators
10 in each packet.....$12.50

LEBO

Voyager series nylon carry cases are water resistant and are suitable to carry a variety of personal accessories. Features include; zippered openings; padded construction; adjustable straps. Various colors are available.
20030 First Class Voyager. For 30 boxed or 48 unboxed cassettes, with large personal accessory pocket, removable tray, detachable, padded shoulder strap, handle, color coordinated hardware $19.95
21230 Custom Lite Voyager. For 30 boxed or 48 unboxed cassettes, with large personal accessory pocket, removable tray $16.95
21220. Same as above for 20 boxed or 32 unboxed cassettes $13.95
21030 Venturer. For 30 boxed or 48 unboxed cassettes, adjustable shoulder strap.....$13.95
25212. For 12 regular or 6 twin box CD's with outside personal accessory pocket and detachable shoulder strap; interior velcro compartment divider $11.95
25006. For 6 regular or 3 twin boxed CD's, dtachable shoulder strap and belt loop.....$7.95
21010. For 10 cassettes or personal accessories, detachable shoulder strap and belt loop ...$6.50

LUXMAN

Remote Control Accessories
Allow remote control of Luxman components from any desired room. RC401 is the main unit and must connect to a Luxman amp/preamp/intergrated amp. RC402 and 101 allows remote operation from any room. RC403 allows connection of nonLuxman components to system for remote control from any desired room.
RC401. Remote control splitter..... $60
RC402. Remote control transformer..... $50
RC403. Remote command repeater..... $70
RC101. External remote eye $50
RC406. Handheld remote for R-103 ..... $60
RT407. Handheld remote for T-107 ..... $50
RU100. Handheld remote for U-100..... $50

Cables
RC100. Extention cable $40
RC102. DIN Y cable $30

MEMOREX BY MEMTEX

CP8 Universal Remote Control
Learns functions of 8 remote controls. Features sequencer operation to perform multiple remote commands with one touch; time-day of week clock; booster for more powerful signal; backlit LCD display for night use $99.95

Electronic Cassette Demaganetizer
Battery-powered head demagnetizing system. Eliminates residual magnetism to keep recordings free of noise and distortion. Works in less than 1 sec on any deck $24.99

Auto Lighter DC Power Adapter
Power battery-operated radio, tape player, or personal portable through car lighter socket. Features 6 plug types, 5 voltages, and 2 polarities.....$14.99

Compact Disc Cleaner
Cleans digital discs for accurate music; restores uniform disc reflectivity. Includes cleaning solution, pad, bristle brush, and storage case .$14.99

Double Pair Stereo Cable
4 coaxial cables in 1; stranded pure copper conductors; color-coded RCA phono-type plugs. Gold plated for maximum signal transfer and interference-free reception.....$11.99

Deluxe Speaker Cable
16 gauge heavy-duty cable (60% more copper than 18 gauge) and 19 strand pure copper conductors for high conductivity and low signal loss $11.99

Safeguard Voltage Spike Protector
Guards against brief high-voltage spikes in standard 110-120-V AC outlets $7.99

Compact Disc Player Dustcover
Soft durable vinyl CD player dustcover with clear front panel for convenient viewing of controls. Available in medium (14" x 12.5" x 3") and large (18" x 14" x 3") sizes $5.99

Graphite Filament Record Cleaner
Cleans and neutralizes static electricity. Features electrically conductive graphite microbristles that fully reach into the bottom of record grooves for thorough cleaning $5.99

Audio Patch Cables
Features gold plating for maximum signal transfer; low capacitance, heavy shielding for truest sound; 95% braided copper shielding for high frequency response and low distortion.
6 Foot Length $6.99
4 Foot Length $4.99

Compact Disc Organizer
Storage unit with independent storage slots holds up to 12 CDs in a vertical position. Twin pack.....$4.99

Compact Disc Storage Case
High-quality dust-proof replacement storage case for individual CDs. Standard jewel-box design. Twin pack.....$2.99
FM Dipole Antenna
Features folded dipole design length-tuned to optimum wavelength for FM radio band. No wire stripping necessary $1.99

3-Pack Audio Albums
Design allows tape end in or out for hassle-free storage. Cassette protection for home or car$0.99

Tape and Record Care Products

X-CD. Cassette head cleaner and demagnetizer.....$6.99
Record Care Kit $5.99
Cassette Cleaning Kit $2.99
Record Cleaner $2.99
Record Cleaning Fluid $2.69
Cassette Head Cleaner $1.89

Headphone Accessories

Headphone Extension. 20-ft lightweight stereo headphone extension cable $5.99
Y-Adapter. Dual-headphone adapter.....$2.99
Mono Adapter. Mono adapter for stereo headphones.....$1.99

MICRO SEIKI BY ANALOG EXCELLENCE

MT-1000L Step-Up Transformer
For 3-ohm MC cartridges. FR 15-60,000 Hz; 13 cm w x 6.5 cm h x 13 cm d; 12.6 lb $995
MT-1000H. For 40-ohm cartridges..... $995

MT-500 Step-Up Transformer
For 3- or 40-ohm MC cartridges. FR 15-60,000 Hz; 13 cm w x 6.5 cm h x 13 cm d; 6.6 lb $595

MISSION ELECTRONICS

Isoplat Isolation Platform
Isolates vibrations and resonances from equipment. Design based on critical application of vertical sandwich of highly inert fiberboard and Sorbothane feet. Capable of controlling damping vibrations in all 6 rotational translational axes $69

The Mission Cable
Speaker cable in 1 pair of separated conductors made from pure annealed oxygen-free copper strands (651 x 0.07 mm) with nominal cross-section of 2.5 mm; marked + and –; conductors laid parallel, separated and insulated together in figure-eight section; nominal insulation thickness 0.7 mm; moninal dimension 3.8 x 9.6 mm; directional, designed for use with "M" of Mission towards amp and "n" towards speakers. Specs at 20° centigrade: single conductor resistance 7.7 ohms/km; inductance 1.6 μH/m; nominal capacitance 35 pF/m $2.00/ft

M.M. NEWMAN

Heli-Tube. Spirally cut industrial grade cable wrap. .25", .38",.50" sizes for bundles up to 4" dia; 8 ft lengths; 0.50" $2.25
0.38" $1.60
0.25" $1.45

MONSTER CABLE

AP-1 MC Pre-Preamp
Imp selectable by front-panel switches; battery powered with recharger included..... $475

Discus CD Stabilizer
Disc with same dimensions as CD designed to stabilize discs for reduced errors $29.95

Speaker Cable

M1 Speaker Cable
"MicroFiber" dielectric insulation designed to eliminate "Intertransient" noise, reduce transient interference, intended to preserve power and dynamics; primary and secondary grouped networks; carrying case. With M-Spades.
15-ft pr $325
25-ft pr $500
30-ft pr $600
With X-Terminators.
15-ft pr $400
25-ft pr $550
30-ft pr $650
From Spool $9.00/ft

Monster Cable Connecting Cables
Improved version of original Monster Cable with new strand configuration designed for midrange clarity, faster transient response, and extended low and high FR. Pre-cut, with universal gold pin ends with lock-notch.
50 ft $95.00/pr
30 ft $60.00/pr
20 ft $45.00/pr
15 ft $35.00/pr
From spool, not pre-cut $1.00/ft

Superflex Speaker Wire
High-purity copper speaker wire with flexible Duraflex insulation; dividing web between the 2 conductors. Same stranding configuration as Monster Cable but fewer strands of wire $0.50/ft
25 ft $40.00/pr
15 ft $25.00/pr
10 ft $20.00/pr

Powerline 2 Speaker Cable
"Time Coherent" winding designed to eliminate phase inaccuracies, align highs and lows for improved FR, imaging; unterminated..... $3.25/ft
Powerline 3. Smaller version of Powerline 2..... $1.75/ft

Interconnects

M1000 Interconnect Cables
"Total Phase Aligned Bandwidth Balanced" design; dual conductors and 3 wire networks; "MicroFiber"; M-Terminator connectors. Precut.
20-ft pr $450
2-m pr $210
1.5-m pr $180
1-m pr $150
0.5-m pr $110
From Spool $9/ft

Interlink 500 Interconnect Cables
"Precision Bandwidth Balanced" construction; dual conductors with "MicroFiber"; designer colors. Precut.
20-ft pr $180
2-m pr $75
1-m pr $50
From Spool $4/ft

Interlink Reference Connecting Cables
Connecting wire with 3-wire multiple-gauge network for each conductor. Thick core wire designed for for frequencies below 300 Hz, 4 medium conductors intended for midrange, hair-thin woven stranded wires made for 700+ Hz.
20-ft pr $290
2-m pr $130
1.5-m pr $110
1-m pr $85
0.5-m pr $75

Interlink CD Cable
Interconnect cable for CD players designed to increase performance and sound quality .. $3.00/ft
1-mile pr $9,863
20-ft pr $150
2-m pr $70
1-m pr $50
Interlink 300 Interconnect Cables
Dual-balanced conductors; dual-shield braid and foil.
20-ft pr $50
16-ft pr $40
2-m pr $24.95
1-m pr $19.95
From Spool $0.75/ft

Genesis Lightspeed Tonearm Interconnect
For connecting cartridge to preamp $175

Interlink 400 Interconnect Cable
Same "Bandwidth Balanced" design as Interlink Reference; "MicroFiber" technology; unterminated..... $1.25/ft
20 ft $79.95/pr
2.0 m $39.95/pr
1.5 m $34.95/pr
1.0 m $29.95/pr
0.5 m $24.95/pr

UNIQUE SOLUTIONS

When you want the best cabinetry for your audio/video components, look to CWD for incomparable choices. Known for superior style, flexibility and craftsmanship, our modular units let you create a custom wall system that enhances the performance of your components. A system you can add to and rearrange as your home entertainment system grows. Whatever your needs, CWD offers unique solutions for every component requirement including the ingenious Woodmore™ Magic Lowboy, a remote-controlled cabinet that can be raised or lowered with the mere touch of a button. Set it up without a center panel for monitor and speakers, as shown in the dramatic Black Oak wall system (above)...or with a center panel to house an audio video system in the Magic Lowboy cabinet used alone (below). CWD cabinets and accessories are truly fine furniture to cherish a lifetime, handmade, hand finished, and outfitted with precision hardware.

Select hardwood solids and veneers available in handsome Natural Oak, Dark Oak, Natural American Walnut or Black Oak. Also in dramatic High Gloss Black.

High Performance modular furniture that keeps pace with your electronic system

CALL TOLL FREE
1-800/323-2159
for the dealer nearest you.
(Illinois, call 312/563-1745)

CWD
CUSTOM WOODWORK & DESIGN INC. Bedford Park, IL 60638

NADY SYSTEMS

IR-103 Personal Infrared Stereo Receiver
Infrared stereo transmitter model IRT-520 plugs into any stereo or tape deck's headphone jack. Infrared signal is transmitted to sensor on top of personal receiver. Any number of Nady infrared receivers can be used in a room. A "slave" transmitter, model IRT-520-S is available to extend range and coverage to outdoor areas such as backyards and swimming pools $100
IRH-210. Integral headphone/receiver $60

NAKAMICHI

DM-10 Head Demagnetizer
Tape head demagnetizer $36

SF-10 Subsonic Filters
Compact passive filters operate at line level to remove turntable rumble and other infrasonics caused by record warps and tonearm/cartridge resonances. Provides 6 dB/octave filter, down 10 dB at 10 Hz. May be used at tape output or amp tape-input jacks. 2.6" l x 0.51" diameter$15.00/pr

NAMIKI
BY ANALOG EXCELLENCE

DM-100 Demagnetizer
For MM and MC cartridges, dynamic speakers, headphones. 164 mm w x 77 mm h x 100 mm d. 0.7 kg $100

DF-100 AC Polarity Direction Finder
Identifies polarity of AC power cord; uses 9-V battery. 175 mm w x 21 mm h x 60 mm d; 260 g..... $100

AV-101B Headshell
Rigid universal headshell with adjustable azimuth and overhang; suitable for MC cartridges. 16 g..... $50
AV-101S. Same as above except silver $50
A-1. For MM or MC cartridges. 10 g..... $40
AV-11. For MM cartridges. 8 g..... $30

NIKKO AUDIO

CO-23 Crossover
3-way mono, 2-way stereo, 22-point crossover system with double mids and turnovers ... $700

NSR350G Equipment Rack
Woodgrain black pro rack with double doors and glass top $269

NPS-1R Switcher
Remote switching module $200

NSR150G Equipment Rack
Wooden rack with glass door..... $115

NILES AUDIO

MSA-10 Speaker Switcher
Enables play of up to 10 pairs of 4-, 6-, or 8-ohm speakers off of any stereo amp. Features high-power-imp matching transformers; logic circuitry; 10 front-panel controls; rear connector accepts up to 14-gauge speaker wire; separate L+R ch grounds for use with bridged amps. Power handling 250 W/ch. Walnut side panels standard, rack mount ears optional. 17" x 3.5" x 6" . $550
MSA-6R. Remote-controlled, 6-position speaker switching system to turn on or off either from a central location or remotely by using optional wall controls in different rooms. Turns on AC power to main system as well speakers in individual rooms. All 6 locations can be played at once. Maintains nominal 8-ohm load on amp no matter how many pairs are played. 19" w x 5.25" h x 12.12" d; 16 lb $599
SVC-4. For 4 pairs of speakers. Features individual volume controls; connection for second amp; autotransformers; seperate L+R ch ground connections for use with bridged amps. 8 lb; 11.2" w x 4.62" h x 5.31" D $280
SVC-4W. Same as SVC-4 except designed to be flush mounter into a wall. Pre-construction and retrofit versions available $325
SVC-2. For 2 pairs of speakers. Individual volume controls; autotransformers $150
HD-5W. Accomodates most kinds of wire or connectors. Features 5-way rear panel terminals; seperate L+R ch grounds; impedance protection. Can be used with any type power amp; handles up to 250 W/ch. 3 lb; 12.5" w x 3.36" h x 6" d $150
SPS-1. Accommodates up to 14-gauge speaker wire and power handling capacity up to 100 W/ch. Genuine walnut side panels $80
Rack mounts $15

CPM-31 Patching Matrix
6 x 6 patching matrix to connect tape decks, equalizers, and NR units. Allows a component's output to be fed to another component's input. Passive unit with RCA jacks on rear. 9" w x 4" h x 8.75" d; 6 lb $180
CPM-2. Similar to CPM-31 except with 4 x 4 matrix..... $100

TSB-3 Tape Deck Switch Box
Allows record, playback and dub between any of 3 tape decks. Patching performed by turning knobs. Features RCA phono jacks; optional rack-mount ears and walnut end panels. 7.12" w x 2.65" h x 5.6" d. 2 lb $80

SCW-1 Volume Control
Wall-mounted stereo volume controls for remote speakers. Use of autotransformers instead of L-pads..... $48
SCW-2. Similar to SCW-1 with stereo headphone jack $66
SVC-1. Table-top speaker volume control for remote speakers. Volume adjustment independent from main speakers. Uses autoformer volume control instead of L-pad $75
SCW-2A. Similar to SCW-1 but has selector switch for 2 different amplifier inputs $66
SCW-2HP. High-power version of SCW-1. Uses high-power autoformer instead of L-pads. Power handling capacity 15- W/ch. 4.56" W × 4.5" H × 2.56" D; 2 lbs.....$69.95

DPS-1 Amplifier/Speaker A-B Selector
Permits either of 2 amps to be played into a single pair of spekers, or a single amplifier to play into either of 2 pairs of speakers. Features high-power A-B selector switch box; handles 300 W/ch; rear panel connector for up to 14 guage speaker cable or high definition wire pin connector. 2 lb; 6.12" w x 2.8" h x 3.15" d $65

APX-1 Auxiliary Input Selector
5-input, 1-output stereo selector box for 5 line-level signal sources. Allows selection by turning a knob. 1 lb; 5.12" w x 2.5" h x 5.12" d $55

PS-1 Phono A-B Switcher
Connects 2 turntables to a receiver with only one phono input. Features L+R ch grounds; switches both the hots and the grounds for total isolation; RCA phono connectors. 4.725" w x 1.9" h x 4" d; .5 lb $50

NITTY GRITTY

Pro MK 3 Record Cleaner
Professional-type record cleaner designed for consumer use. Wets, scrubs, and vacuums both sides of record simultaneously. Cleans record of all dust, grease, and static charge. Features large oak cabinet; strong vacuum motor; quieter operation. 18" w x 11" h x 11" d; 31 lb $859
3.5 FI. Same as above except cleans one side at a time $649
2.5 FI. As 3.5 FI, but slightly smaller $469
1.5. Similar to 2.5 FI except no solid oak cabinet or fluid injection $35

ONKYO

CB-90V Audio Rack
Rack for Integra and Onkyo components. Features black wood; chrome trim; tinted glass; double doors; locking casters; adjustable shelves. 20.62" w x 35.31" h x 18.5" d; 19.94" internal width; 56 lb $320

RC-AV1M Universal Remote Control
Audio/video universal remote control can be programmed to operate a variety of video (VCR's, TV's, cable boxes) and audio components with infrared remote capabilities. Learns the remote operations of a variety of components and can store more than 100 different functions into memory. Control codes for Onkyo products already programmed in. Uses 4 AAA batteries. 7.06" long x 2.88" w x 1.25" d.....$119.95

ONIX AUDIO BY MUSIC HALL

S.O.A.P. Add-On Power Supply
Designed to add extra current to power amp, increasing dynamics and clarity $400

ORA ELECTRONICS

Studio Spec Brand

CD-2 Compact Disc Cleaner
Self-contained CD cleaning kit includes cleaning brush, chamois pad, cleaning base/box, and 1.5 oz of CD cleaning solution in pump-spray bottle $12.99
CD-4. Individual CD storage boxes, clear plastic jewel box design. 2 per package.....$4.20
MK-116. Audio head maintenance kit includes felt, brush, and mirror probes, replacement felt pads, and head cleaning solution.....$3.95
ATC-DC-113. Dual-capstan audio cassette head cleaner. Wet-type specially designed to clean entire tape path in dual-capstan or autoreverse cassette decks $3.49
ATC-112. Wet-type, audio cassette head cleaner.....$2.99

ORTOFON

RC-015 Stylus Cleaner
Electronic stylus cleaner with tuned oscillator vibrates all contaminants off the stylus assembly. Includes 20 ml bottle of stylus-cleaning fluid; magnification mirror $34.95

CC-021 Cassette Maintenance Kit
Includes autoreverse cassette cleaner and electronic head demagnetizer $29.95

SMART SINGLES.

MODERN MARRIAGE.

If you're like most people who listen to audio cassettes, you've probably used a tape head-cleaner and felt pretty good about your conscientious attitude toward machine maintenance. Unfortunately, most cleaning cassettes allow contaminants to build up on the capstan/pinch roller assembly. It's a situation that, if left uncorrected, can result in your valuable cassettes being "eaten" when they stick to, and wrap around, the pinch roller (a problem that's even more common in car systems). Fortunately, Discwasher has a simple solution.

Discwasher's Perfect Path™ Cassette Head Cleaner uses a non-abrasive tape to remove oxides from your tape heads. And our C.P.R.™ Capstan/Pinch Roller Cleaner uses an advanceable fabric and scientifically-formulated cleaning fluid to scrub away stickiness. Used together, they ensure good sound and "healthy" cassettes.

Now our System II™ approach combines both technologies in a single cassette, adding convenience to optimum tape deck performance. With regular use, your equipment (and your cassettes) will have a fighting chance for a long, happy life together. Isn't that what you'd expect from Discwasher?

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The makers of the famous D4+™ Record Cleaning System.

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ACCESSORIES

RC-014 Electronic Static Eliminator
Ion gun with trigger control bombards record surface with static-neutralizing ion particles; will not harm pets, insects, visitors, or furniture$21.95

RC-017 Acoustic Shock Absorbers
4 adjustable shock-absorbing feet help prevent acoustic feedback and allow for leveling turntable. For use with turntables up to 45 lb ..$21.95

CD-040 Compact Disc Maintenance Kit
Includes cleaning cloth, cleaning spray, lens cleaner, in album storage box with padded cleaning surface $19.95
CD-042. Replacement spray for CD-040 ..$6.50

CC-020 Autoreverse Cassette Cleaner
Wet-type cleaning cassette cleans all tape heads, capstans, and pinch-rollers in autoreverse cassette decks in 30 sec. Includes cleaning solution and replacement pads $12.95

RC-013 Record Care Kit
Includes walnut record brush with one-way pile; record cleaning solution to remove dirt and eliminate static; stylus cleaner $16.95
RC-011. Replacement fluid for RC-013 ...$4.95

RC-010 Carbon Fiber Brush
Record cleaner with polished carbon fibers to remove dirt from record grooves while built-in copper-wire grounding system eliminates static buildup $9.95

RC-016 Disc Coupler
Designed to couple the record to the platter for increased bass response and improved imaging. Includes 2 hubs to fit most spindles $9.95

RC-018 Alignment Tool
Phono cartridge alignment tool features mirrored surface with two-point alignment system and center spindle cutout.....$4.95

RC-012 Stylus Cleaner
Cleaning fluid removes residue from stylus. Includes fluid and applicator brush.....$3.49
RC-009. Stylus pressure gauge.....$2.95

O'SULLIVAN INDUSTRIES

52650 Audio Cabinet
Solid oak frame & door; finished in oak laminates; 2 adjustable or removable shelves; clear tempered glass door; casters; Overall 45" h x 20.75" d x 21.88" w; component area 26.13" h x 17.75" d x 20.5" w $164.95

7920 Entertainment Center
Finished in white laminates with adjustable or removable VCR shelf and ten component shelves. Features pull-out turntable shelf; TV area; tempered clear-glass door and twin doors concealing storage area below. Overall 47.25" h x 15" d x 47.88" h; TV area 27.38" h (adj.) 15.38" d x 27" w; VCR shelf 6-8" h (adj) x 15.13" d x 27" w; component area 27.38" h x 14.38" d x 19" w $159.95

79280 Entertainment Center
Finished in colonial oak laminates with twin tempered clear-glass doors. Features twin component shelving; large TV area for most 19" TV's; twin vein-lined doors concealing storage area; solid oak door pulls. Overall 47.25" h x 15.5" d x 48.13" w; TV shelf 21.75" - 20.5" - 19.25" h x 15.5" d x 27.13" w; VCR shelf 4" - 5.25" - 6.5" h x 15.5" d x 27.13" w; component area 27.13" h x 13.75" d x 19.13" w $149.95

52550 Audio Cabinet
Features twin, tempered clear-glass doors; 3 adjustable component shelves; turntable area; adjustable, retractable top shelf mounted on steel glides; concealed storage area for tapes and accessories; dual-wheel casters. Bartonwood laminates. Overall: 41.25" h x 20" d x 19.5" w, component area: 25" h x 15.75" d x 17.88" w, turntable area 5.12" h x 15.75" d x 15.75" W $149.95

52192 Audio Cabinet
Features tempered, clear-glass lift-lid and door; black-pebble-grain laminate shelves; adjustable middle shelf; album and/or accessory storage spacel dual-wheel casters. Bartonwood laminate. Overall 37.74" h x 15.75" d x 19" w, turntable area: 5.12" h x 17.62" d, component area: 13.12" h x 14.36" d x 17.62" w $89.95

PARASOUND

SAS-22 Spiked Speaker Stands
Stands adjust up to 22" high; all steel construction; matte black $85.00/pr

LS-20 Steel Speaker Stands
All-steel; matte-black finish; channel conceals wires. 22" maximum height. Holds speakers of up to 50 lb $85.00/pr

LS-8 Welded-Steel Speaker Stands
Elevates bookshelf speakers 9" above floor. Holds speakers weighing up to 150 lbs. Textured matte-black finish $65.00/pr

PREMIER BY SUMIKO

Catalyst Interconnect Cables
Designed for low series inductance; zero audio transfer loss; transposed twin axial internal wire for low magnetic interference; 1-end grounded shield; gold-plated connectors; connection points machined from solid body; teflon dielectric. Custom lengths available on request.
0.5 meter stereo pair $92
1.0 meter stereo pair $100
2.0 meter stereo pair $119

VTA-16 VTA Tonearm Adjustment Device
To adjust tonearm height even while record is playing; tooled to complement MMT and other arms with 16-mm mounting posts $85

PIB-1 Interface Box
Terminates any standard tonearm JIS plug to gold-plated female RCA's; eliminates drag on turntable suspension; electrically neutral interface for interconnect cable $80

HS-12 Universal Headshell
Features solid magnesium; double-lock pins; adjustable azimuth; linear-cystal oxygen-free copper wire. Includes high-rigidity mounting-hardware kit $32
HL-29. LC-OFC headshell wires as used in HS-12..... $12

PROTON

Equipment racks for audio systems.
R12 ..... $249
R11A..... $229

REALISTIC

Walnut-Veneer Audio Cabinet
Tempered glass door; hinged top, heavy-duty swiveling casters; software storage space; unassembled. 45" x 18.37" x 17.5" $130

Hickory-Grained Audio Cabinet
Full-length tempered glass doors; hinged top; 3 adjustable shelves; storage space for LP's and tapes; metal supports; heavy-duty swiveling casters; unassembled; hickory-grained vinyl finish. 37.5" x 21.25" x 17.25" $120

Tape Control Center
Connects to tape-monitor loop to allow use of three tape decks for monitoring, recording, and dubbing; with illustrated manual $25.95
Micro Head Cleaner
Nonabrasive tape in microcassette-type shell cleans tape path of microcassette machines $2.99

Mini and Micro Tape Tray
Holds 12 minicassettes or microcassettes; smoke-tinted cover $2.49

Tape Recorder Maintenance
Lighted Demagnetizer. 3.5"; for all tape decks $13.95
Universal Demagnetizer. For all tape decks; 2 angled tips $9.95
Cassette Head Demagnetizer. In cassette shell; works in 1 sec; with battery $9.95
Demagnetizer/Cleaning Kit. Demagnetizer cassette, probe, mirror, solution, cloth $5.95
Cleaner Cassette. Felt pads clean heads, pinch roller, capstan; with 0.5 oz of fluid $3.99
8-Track Cleaner. Cleans heads and capstan rollers; nonabrasive $2.99
Cassette Head Cleaner. Removes oxide from head and capstan; with fluid $2.69
Head-Cleaning Kit. With 6-dram bottle of Freon TF solvent and 6 foam swabs $2.59
Pro-Style Solvent. Freon dissolves dirt and oxides on heads; 2 oz $2.39
Head-Cleaning Spray. Removes dirt and oxide without residue $1.99
8-Track Cleaner. Removes oxide from heads; nonabrasive.....$1.99
Cleaning Swabs. Reusable lintless foam; 10 pack.....$1.95
Cassette Head Cleaner. Nonabrasive tape in cassette shell $1.89
Recorder Cleaning Kit. 2 1.25-oz bottles of cleaner and lubricant; 10 swabs $1.69
Cleaning Cloths. To clean tapes and equipment dustcovers; 4 pack $1.49
Cleaning Sticks. Cotton-tipped 6" wood sticks; 100 pack $1.29
Head-Cleaner Solution. Cleans heads, tape guides, capstans, metal parts; 2 oz $0.99
"Nonslip" Solvent. Reduces slipping of idler wheels, belts, etc.; fast drying; won't harm rubber $0.99

Cassette Accessories
Tape Splicer. Chrome cut/trim lever; with splicing tape and instructions $6.49
Repair Kit. With 32-page manual, housing, labels, splicing materials $4.99
Hand-Winder. For winding cassettes $3.99
Index Cards. Fits standard cassette boxes; 20 pack.....$1.19
Tape Housing. With 24" leader tape and instructions $1.19
Cassette Boxes. Hinged; clear plastic; 3 pack.....$1.19
Index Labels. Adhesive; 6 each of red, yellow, blue, green; total 24.....$0.99
Molded Mailers. Meets first-class postal regulations; 3 pack.....$0.89
Budget Mailers. Cardboard boxes with labels; meets first-class postal regulations; 6 pack . $0.79

Open-Reel Accessories
7" Metal Reel. With box $6.95
7" Plastic Tape Reel. $1.39
Tape-Reel Holders. Fits most recorders; 2 pack.....$1.19
5" Plastic Tape Reel. $0.99
3" Plastic Tape Reel. With index and timing chart $0.69

General Tape Accessories
Bulk Eraser. For all tape except metal and videotape $15.95
Editing Block. Aluminum splicer for all tape

sizes with 90° and 45° cutting guides; with blade and mounting strip $3.99
Foot Switch. Remote-control on/off switch for typing from dictation; submini plug $2.99
Universal Splicer. Dual guides; levers secure tape; with blade and instructions $1.99
Phone Pickup. Suction cup attaches to handset; 1/8" mini plug; may be incompatible with electronic phones $1.99
Sensing Tape. Metallic tape stops or reverses recorders with contact or photosensitive systems; 100" roll $1.99
Leader Tape. 7/32 x 200" roll $0.99
Splicing Tape. 100" roll; 7/32", 3/8", or 1/8" widths $0.79

REVOX

B206 Infrared Remote Transceiver
Provides mulit-room remote control of audio/video systems utilizing infrared remote transmitters. Infrared signals picked up by receiver module and relayed by cable to transmitter "eye" which must be mounted in line-of-sight to equipment. Cable lengths up to 65 feet allowed. Operates with all makes of audio and video infrared remote transmitters. Operates with standard 6 V AC adapter (not included). Receiver: 3" x 1" x 6.5". Transmitter 1.5" x 0.75" x 0.75" $150

SAC

C-42 Cassette Organizer
Stackable holder for up to 42 cassettes. Features pull-out drawer system; chrome, black, red, white, mauve, and blue finishes $24.95

SACpac
A belt which carries a removable bag and pouch. The bag holds a pocket stereo and the pouch holds up to 3 cassettes. The belts are black and the bags/pouches are available in red, white pink, blue, green or black with black trim. The belt is adjustable for sizes from ladies Small to men's Large $9.95

NCDB12 CD Tote
Waterproof nylon bag with high-impact plastic insert; holds 6 double or 12 single Compact Discs, adjustable shoulder strap $9.95

CD-12 Compact Disc Organizer
Can hold up 12 single CD's and can be interlocked horizontally or vertically. Free standing or wall mounted; smoked plastic $3.95

SAEC BY ANALOG EXCELLENCE

ULS-3X Universal Headshell
Antiresonant ceramic headshell. Made of sintered multi-crystallized aluminum oxide of >99.7% purity. 18 g $125
ULS-2x. Composite headshell. 9.5 g $42

LX-1020 Interconnect Cable
Separate parallel OFC cable; RCA plugs treated with rhodium (platinum) $40

CX-5006A MC Pickup Cord
Separate parallel OFC cable; terminals treated with rhodium (platinum); imp 20-120 ohms; 1.5 m $52
CX-5006B. As above except imp 1-10 ohms $52

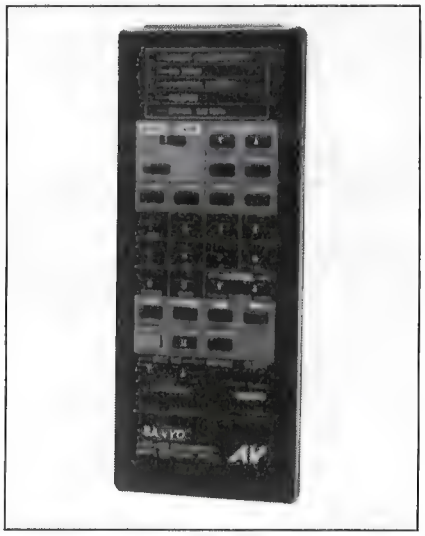
SANSUI

AT-700 Programmable Timer
2-piece timer/clock automatically activates equipment for playback or recording at any preset time within any 24-hr period. Easy-to-use touch-panel for programming 3 AC outlets, 700 W total $100

AT-20 Programmable Timer
Automatically activates equipment for playback or recording at any set time within 24-hour period. Features digital clock and 3 outlets (700 W total). 16.94" w x 2.31" h x 5.06" d $125

SANYO

RBU1 Universal Remote Control Transmitter
Programmable infrared remote control uses an 8-bit microprocessor to learn and use the infrared



codes from as many as three different remote control products. Features multi-function controls to execute up to 87 functions from a 36-button keypad; 5 LED indicators monitor learn mode operation; pre-programmed to work with current Sanyo RC audio/video components $100

SCOTCH

Record Care System
3-way record protection-dust cleaning, static removal and friction reduction with Sound Life fluid. Applicator attatches to turntable spindle to meter a controlled amount of fluid onto pad.
Total System $27.99
Sound Life replacement fluid $8.19

Turntable Dust Guard
Conductive foam turntable pad reduces external electrostatic field to repel airborne dust ... $6.99

ERK-130 Cassette Edit/Repair Kit
Contains precision splicing block; spindle for manually winding cassette tape; 6 polyester picks (adhesive tipped for retrieval of tape ends lost in housing); 6 130-mil splicing tabs; detailed instruction booklet $3.59

SK-.22. 12.5 ft of 1.9 mil polyester splicing tape in dispenser kit $2.49
#41. 0.5" x 150" splicing tape $1.20

Re-Label Tape
0.75" x 700" write-on white tape supplied in dispenser. For labeling all types of audio cassette. Removable $1.99

S-C-HC Cassette Head Cleaner
Cassette head cleaner $1.89

SERVICE MANUFACTURING

CD-2HT CD Storage Cabinet
2-drawer cabinet holds 40 compact discs. Hi-tech black finish $29.95
CD-2. Similar to CD-2HT except has woodgrain finish $24.95

A-3HT Cassette Storage Cabinet
3-drawer cabinet holds 36 audio cassette. Hi-tech black finish $21.95
A-3. Similar to A-3HT except has woodgrain finish $19.95

CD Carrying Cases
CD418. Padded vinyl case holds 18 single or 9 double CD's $19.95
CD218. Nylon case holds 18 single or 9 double CD's $19.95
CD206. Nylon case holds most portable CD players with battery pack and CD's $12.95

Cassette Carrying Cases
2029. Padded nylon attaché case holds 30 boxed or 60 unboxed cassettes $34.95
2076. Padded, vinyl attaché case holds 36 boxed or 72 unboxed cassettes $24.95
1805. Soft-style, padded, nylon case holds 30 boxed or 60 unboxed cassettes. Includes padded carry handles and shoulder strap $24.95
2079. Padded, vinyl attaché case holds 30 boxed or 60 unboxed cassettes $21.95
1804. Soft-style, padded, nylon case holds 30 boxed or 60 unboxed cassettes $19.95
2071. Padded, vinyl attaché case holds 24 boxed or 48 unboxed cassettes $19.95
2020. Padded, vinyl, double-sided case holds 60 boxed or 120 unboxed cassettes $19.95
2060. Padded, vinyl, double-sided case holds 60 boxed or 120 unboxed cassettes. Hi-tech design $19.95
1802. Soft, padded nylon case holds 12 boxed or 24 unboxed cassettes $14.95
2025. Padded, vinyl, attaché case holds 30 boxed or 60 unboxed cassettes $14.95
2063. Padded, vinyl, case holds 12, boxed or 24 unboxed cassettes $9.95
1800. Padded, nylon cassette pouch holds 10 cassettes and/or most popular personal stereo/stereo cassette players $9.95
1906. Cassette wallet holds 6 unboxed cassettes $7.95

SHURE

M64 Preamplifier
Fixed-gain stereo preamplifier with switch-selected phono, tape EQ; for use with unequalized amplifier inputs, mic's, as buffer amp in "flat" position; on-off AC/DC switch; two phono jack inputs; 120 V AC 50/60 Hz, 5 W $99.00

SFG-2 Stylus Force Gauge
Allows precise setting of optimum stylus force for maximum trackability and sharply reduced wear on records and stylus tip $9.25

SIGNET

Headshells
SK506. Universal-type headshell made of magnesium. Features factory-fitted damping material and allen screw on collar $25
SK505. Straight-arm headshell $15

Cleaners

SK314. Auto CD cleaning system. Spins a soft, dry chamois against spinning CD. Cleans for approx 20 seconds and then automatically shuts off. Includes bottle of safe detergent fluid, six optical-quality cloths, and 2 C batteries. $60
SK305. Electronic stylus cleaner $40
SK306. Replacement fluid for SK305 ..... $4
SK301. Liquid stylus cleaning formula $5
SK302. Contact cleaner/restorer with 3-way action. Removes oxidation, leaves protective coating to slow-down future oxidation, serves as a contact enhancer. Tools allow thorough cleaning of plugs and jacks. For both audio and video components $20

SK312. Compact Disc cleaner. Features soft leather chamois for surface dust and cleaning solution with optical quality cleaning cloths for tougher dirt $20
SK-310. Record cleaning system with low-residue cleaning and humidifying solution, convenient storage base. Unidirectional brush reduces static charges on vinyl record surface $30
SK309. Replacement fluid for SK310 and other record-cleaning systems to reduce residues .. $4
SK309/500. 500 ml bottle of cleaning agent for SK310 ..... $15
SK307. Audio cassette cleaner tape. Features phillips-type cassette with alternating wet/dry cleaning system and cleaning fluid $15

Cables

SK481. CD high definition LC-OFC interconnect cable; 1.0 meter $60
VK410. Maximum Transfer video interconnect. Features multi-strand wide-bandwidth center conductor surrounded by as thick-foam dielectric for low capacitance and extended high-frequency response. 2 shileds of denses copper braid and conductive polypropylene layers insures noise-free transmission of video signal. Gold-plated male-to-male RCA connectors. Available in 1- and 3-meter lengths $30-40
VK411. As VK410 with gold-plated Quick-F to Quick-F connectors. 1- and 3-meter lengths $30-40
VK412. OFC stereo audio/video cable; gold plated RCA to RCA; 3.0 meter $60
2.0 meter $55
1.0 meter $50
VK212. Economy OFC stereo audio/video cable; gold plated RCA connectors; 3.0 meter $30
2.0 meter $25
1.0 meter $20
SK402. Litz wire interconnector; low capacitance/low resistance; 10 meter $99
1.5 meter $45
1.0 meter $40
0.5 meter $35
SK403. High-quality all-purpose OFC interconnect cable with ground wire; 2.0 meter $18
1.5 meter $17
1.0 meter $16
0.5 meter $15
SK485. LC-OFC headshell wire set $10
VK421. Gold plated RCA to RCA barrel connector $7
VK422. Gold plated F to F barrel connector. $7
VK423. Gold plated female RCA to male F connector $6
SM500. Music line maximum transfer speaker cable $1/ft
SM20. Music line gold plated terminal end speaker wire; 20 ft $40/pr
SM15. Same as above 15 ft $32/pr
SM10. Same as above 10 ft $25/pr
HT18. HiTec 16 gauge speaker wire .... $.22/ft
HT16. HiTec 18 gauge speaker wire .... $.15/ft
GB50. Gold plated banana plugs; w/red/black insulators $2.00/ea
GS200. Gold plated spade lugs; w/red/black insulators ..... $.50/ea
GP200. Gold plated terminal pins; w/red/black insulators ..... $.50/ea

Miscellaneous Accessories

MK12T Moving Coil Transformer. MC transformer to match low output MC cartridges to conventional magnetic phono inputs; selectable impedance $300
MK10T. Same as above without selectable impedance $100
SK503. Disc stabilizer $30

For explanations of abbreviations, specifications, and technical terms, consult the glossary on page 221.

SK308. Cassette demagnetizer for all types of cassette decks. Inserted in unit like standard cassette. Demagnetizes when deck is in play mode. Cleaning completed in 10 seconds $20
SK303. Vibration damping compound $10

SME BY SUMIKO

Tonearm Cable
Van den Hul mono-crystal twin axial cable with right-angle metal DIN plug and gold-plated RCA connectors; separately terminated electrostatic shields $177

Headshell Wires
Each lead has 7 strands of silver litz wire terminated to gold-plated clips designed for max contact with cartridge pins $24

P 925 Headshell Spacer
Increases arm-to-record clearance without compromising rigidity; matches SME headshell; raises arm 0.12" when reset for previous stylus rake angle $17.50

SONEX BY ILLBRUCK

Sonex Acoustic Foam
Sound-absorbing acoustic foam sheets kill background noise and control room acoustics by absorbing peak frequencies caused by standing waves, resonances, slap echoes, etc. Anechoic-type wedge shapes traps and diffuses sound for the same live-end/dead-end effect used in recording studios.
ProPhiles. 3"-thick 12" x 40" sheets with beveled edges. Box of 4 sheets $89.95
Juniors. 2"-thick 24" x 24" sheets. Box of 4 sheets $54

SONRISE CABINET SYSTEMS

Cabinets are fully assembled, made of selected hardwoods hand-finished in Danish oil and sealed with finishing wax, and can be customized. Solid oak is standard, but solid walnut is optional for 30% extra. Cherry, mahogany, or rosewood (or black lacquer on most cabinets) may be substituted. Rack-mount hardware with spring-loaded fully adjustable nuts and infinite internal adjustment on rail for 7% extra. Custom stain (lighter or darker) for 3% extra. Recessed casters are standard on all cabinets. Removable backs available for cabinets with doors.

SW-6 Laurelhurst Audio/Video Cabinet
Horizontal cabinet with bronzed glass lid; doors on left side and fixed shelf over audio, video, or CD drawer on right side. Must specify type of drawer. 25.25" wide x 41" high x 17.5" deep; total weight 90 lbs $750

SP12L Cascade Left Audio Cabinet
Fixed shelves at record height and turntable height (under top glass lid). 2 adjustable shelves. 23.5" w x 49" h x 17.5" d; 92 lbs $800

SP-12H Cascade Audio Cabinet
Audio cabinet with one fixed shelf at record height, 3 adjustable shelves, flush-mounted bronzed glass door. Features no-tool removable back so almost anyone can remove it without tools. Solid oak or walnut. 23.5" w x 49" h x 17.5" d; 92 lbs $700

SK-3 Crestwood Audio Cabinet
Fits 5 components on 3 inside shelves. Top shelf fixed at 6" or 8" clearance. Solid-wood door pulls and flush-mounted bronzed-glass doors in solid wood frames. Adjustable-tension hinges hold lid in any position. Includes casters. 42.5" h x 23.5" w x 17.5" d $650
SK-3GT. With glass top $750

SJ-7 Woodridge Cabinet
Low horizontal cabinet for audio and video components. Comes with oak-framed glass doors on left and pull-out shelf at right. May be stacked. 23.5" h x 42.5" w x 17.5" d $650

E-1 Westwood Audio Cabinet
Open audio cabinet with 1 fixed shelf at record level and 3 adjustable shelves. 23.5" w x 49" h x 17.5" d; 72 lbs $500

SH-4 Magnolia Audio Cabinet
For smaller music systems, cabinet has two inside shelves with space for LPs below. Walnut- or oak-framed doors with bronzed glass. Back removes without tools. With recessed casters and hand-finished solid-wood door pulls. 34.5" h x 23.5" w x 17.5" d $500
SH-4GT. With glass top $600

SE-8 Fleetwood Audio Cabinet
Bronzed glass touch-latch doors; fixed shelf at record height; 2 adjustable shelves. 23.5" w x 42.5" h x 17.5" d; 86 lbs $475

SM-2 Spiritwood Audio Cabinet
Open cabinet with 2 shelves adjustable at 1.25" increments along entire height. Another shelf fixed to provide space for LPs. Extra shelves or full-extension sliders can be special ordered. 42.5" h x 23.5" w x 17.5" d $450

SA-1 Oakshire Open Cabinet
Fixed shelf at record height; adjustable shelf. 34" h x 23.5" w x 17.5" d $375

SV-5 Windemere Cabinet
Solid oak or solid walnut cabinet with adjustable middle shelf or optional full-extension slider. 25.25" w x 23.5" h x 17.5" d $300

SG-11d Mirrormont III CD Cabinet
Swiveling cabinet stores 40 CD's horizontally, 20 on each side. Stackable. 10" h x 11.25" w x 11.25" d $80
SG-11a Mirrormont I. As above for audio cassettes. 10" w x 14.9" h x 6.75" d $80

S-G11LP Record/LaserDisc Cube
Stackable; with record fins. 14.5" w x 14.5" h x 13" d; 18 lbs $80

SG-11dL Compact Disc Storage Unit
Holds 40 discs; stackable and wall-mountable; hardware not included. 21.5" w x 9" h x 6" d; 13 lbs $76

D1 Disc Library
Holds 45 compact discs; locking dividers for single or double jewel boxes; stackable; no hardware included $49.95

Options

Doors. Wood-framed glass, wood, or full glass, three-quarter doors $120
Drawers. For CD's, audio cassettes, video tapes, etc. $90
Pull-Out Shelf. Substitutes for adjustable shelf $80
Slide-Out Shelf. Fixed at your specification $60
Extra Adjustable Shelf $40
Soft Lighting Strips $20

SONY

AVH-555ES Source Selector
Audio/video source selector for selecting audio or video sources. Already assembled $450

XP-CD7 CD Cleaner
Automatic cleaner for compact discs cleans compact discs automatically $59.95

CPA-1 Car Cassette Adaptor
Adaptor allows hookup of a portable CD player to a car head unit $29.95

CK-CD6 CD Carrying Case
Carrying case designed for portable CD players $19.95

CK-CD01 CD Carrying Case
Soft carrying case for portable CD players $12.95

SOTA INDUSTRIES

SOTA II Head Amp
Reference device for stepping up low-output MC signal. Solid-state devices designed to combine tube and transistor sound. Features stiff power supply outboard; inherent distortion cancellation; extremely wide bandwidth; controlled clipping characteristics; variable cartridge loading. FR 1-1,000,000 Hz ± 3 dB; max output 3 V; THD 0.02%; IMD 0.02%; 6" w x 3" h x 6" d ... $500

SOUNDESIGN

Both models in the Soundesign "Wood Classics" line are 30" wide and 14.75" deep to facilitate their use in modular configurations; each has a light oak finish with gold and black tone trim. Sides, tops and bottoms are 0.75" thick; hidden hardware; factory attached rails; and a one piece hardboard back. Scandinavian style doors with push latches. Shelving is fully finished, including the bottom; hidden cord management system.

WC104K Audio Cabinet. 3 shelves enclosed by double glass doors. For use with CD player turntable, receiver tape deck and software collection; 37.5" h $90
WC101K Television VCR Cart. For use with 19" or 26" TV's, open VCR shelf, storage compartment; 25" h $70

SOUTHER ENGINEERING

Clearaudio Pre-Preamplifier
Pre-preamplifier mounts directly to any MC phono cartridge or headshell with 1" wires. Complete RIAA built in. Comes complete with power supply, line amplifier and volume control, wiring harnesses. RIAA ± 0.05%; max output 2 V; gain at 1,000 Hz 52 dB, linear amp additional 20-dB gain. Symmetrical input. 7 g $2,000

Clever Clamp Record Clamp
Unbreakable clamp molded in Lexan. 23 grams; clear; 3.25" d; 0.36" thick $10

STANTON

310B Professional Phono Preamp/Equalizer
Designed to correctly interface all Stanton-selected magnetic cartridges for optimum playback of records and calibration of audio systems. Features universal mounting brackets; selection of flat or NAB potemphasis curves; switchable rumble filter; individual gain adjust; high frequency responses; capacitive-cartridge loading trim. Can be used in balanced and unbalanced modes and in-phase and out-of-phase mix of L and R ch for mono reproduction of older records. Output/ch +20 dBm max; gain/ch adjustable 30-60 dB; balanced or unbalanced output; output source imp 5 ohms, designed for loads 150 ohms or higher; FR ± 0.5 dB from 20-20,000 Hz in Flat or Nab positions; THD <0.05% at 20 dBm; rumble filter 3 dB knee at 28 Hz, −35 dB at 5 Hz; max input level at 1,000 Hz 120 mV; input resistance 47 kilohms; input capacitance 15 pF switchable in 50 pF steps to 350 pF max; flow resistance 78,042 pF per inch when on, 56,981 off; ch sep 60 dB min 20-15,000 Hz. RCA phono jacks (input), 5-terminal barrier strip (output). 7.25" w x 2.5" h x 5" d $280

SP-98 Pre-preamplifier
Designed to amplify signals delivered by low-output low-imp MC phono cartridges and low-imp MM cartridges. Uses 2 alkaline 9 V batteries (not included); total power consumption about 150 μW; per ch; gain 27 dB; (x2) ± 1 dB; FR 5-150,000 Hz (−3 dB) input imp 100 ohms; output imp 1.5 kilohms, S/N 85 dB; (1,000 Hz, 1 mV in) turn-on time approx 15 sec $189

RC5-Plus Record Cleaner
Kit contains cleaning fluid that safely dissolves oily film, loosens microdust, other debris, leaves no residue. Contains antistatic ingredient. Comes with polarized brush, conductive handle. Cleans 300 record sides $16.95
2-oz refill $5.95
8-oz refill $9.50
RC4 2-oz refill $3.95
RC4 8-oz refill $8.95
RC4 replacement applicator pad $8.95
1-oz stylus cleaning fluid $2.50

ARC-5 Carbon Fiber Brush
Safe, fast and effective method of record care, eliminates static build up. Manufactured from aerospace high-elasticity carbon fiber, each filament is strong and flexible to reduce breaking or shedding on the record. Contains 1,000,000 filaments, each filament is 0.0003" (8 microns) diameter, allowing filaments to track record grooves like a diamond stylus, removing dust particles and static charges $15

SAS-3536 Extension Cord
25-ft black straight extension cord, with mini stereo to mini stereo plug to be used with mini headphones $9.95

SC4 Mini Stylus Cleaning Kit $7.95

STRAIGHT WIRE

Interconnect Cables

L.S.I. Class A interconnect. Imp ± .001 ohm from 100-20,000 Hz; copper conductors; air space dielectric; Teflon insulated plugs. Also available in DIN terminated phono cable. Tan $55/meter pr + $90 prep
TMI. Individually insulated conductors; microporous Teflon dielectric; polyurethane jacket; solid Teflon plug insulator; locking phono plugs; royal blue ..... $20/meter pr + $60 prep
Flexconnect. Concentric tubular OFC conductors; coaxial geometry; microporous Teflon dielectric ..... $12/meter/pr + $17 prep

Speaker Cables

TMC. 96 individually insulated strands per polarity (10 gauge); solid Teflon dielectric; fully shielded $10/ft
Music Ribbon-32. 32 Oxygen free copper conductors; polypropylene jacket; 9 gauge; resistance/1,000 ft .858 ohms; current rating 50 amps; choice of jacket colors; 1.90" wide x .055" thick $5/ft
Music Ribbon-16. 16 Oxygen free copper conductors; polypropylene jacket; 12 gauge; resistance/1,000 ft 1.716 ohms; current rating 25 amps; choice of jacket colors $2.50/ft
Music Ribbon-8. 8 Oxygen free copper conductors; PVC jacket; 11 gauge; resistance/1,000 ft 1.365 ohms; .70" w x 0.82" thick $5/ft
Teflon-12. Class A speaker cable. Concentric tubular 12 gauge wire. Teflon dielectric; polyethylene jacket $3/ft

SUMIKO

FB-1 Fluxbuster
Eliminates gradual magnetization of phono cartridges; designed to improve sonic performance in dynamic range, imaging, high-end linearity $250

AC-11 Stulus Cleaner
All-in-1 brush and bottle $16

Rigid Mounting Kit
Tools and hardware for mounting cartridges to tonearm $10

SYMDEX

Tonearm Adaptor
Adapter that converts 5-pin phono plug to Tiffany RCA connectors to allow use of high quality interconnect cable between the tone arm and preamplifier. Uses of copper wire in Teflon sleeving, gold Tiffany connectors. Includes mounting hardware $185

Spikes
Adjustable speaker feet that mount integrally into the base of speakers or wooden speaker stands for rigid coupling to the floor. Minimize speaker/floor junction area, with best results on rugs and carpets. Level adjustment compensates for uneven floors. Includes drill bit. Sold in sets of 8 ..... $40/set

TALWAR

Audio Cabinets
All Talwar audio cabinets are hand finished and fitted with solid-brass hardware. Feature 1" solid hardwood sides; structually reinforced joints; tempered and beveled glass; 8-receptacle power supply with overvoltage and overcurrent protection; air columns; wire management system with wells for interconnects; removeable back; heavy-duty piano casters; full extension drawer for tapes and accessories; adjustable shelves. Custom-made units with different dimensions, marbel tops, and exotic wood available
K-270 Low-boy. 3-sections, solid red oak, 3 adjustable shelves. 74" w x 30" h x 20" d; 270 lb $4,990
C-270. Solid cherry $5,640
M-270. Solid mahogany $5,950
W-270. Solid walnut $6,600
K-420 Standard Unit. Solid red oak, 3 adjustable shelves. 24" w x 48" h x 20" d; 120 lb ... $2,000
C-420. Solid cherry $2,270
M-420. Solid mahogany $2,390
W-420. Solid walnut $2,650
K-320 Standard Unit. Solid red oak, 2 adjustable shelves. 24" w x 36" h x 20" d; 110 lb ... $1,840
C-320. Solid cherry $2,090
M-320. Solid mahogany $2,200
W-320. Solid walnut $2,440
K-220 Standard Unit. Solid red oak, 1 adjustable shelf. 24" w x 30" h x 20" d; 100 lb $1,750
C-220. Solid cherry $1,980
M-220. Solid mahogany $2,090
W-220. Solid walnut $2,320

Cabinet Accessories

Rack Mounting Angles
24" with hardware for 5 components $60
36" with hardware for 8 components $90
48" with hardware for 10 components $120

Cabinet Lights
30" long interior light $160
22" long interior light $110

Additional Shelves and Drawers
Wood shelf $80
Glass shelf $110
Play-free sliders for turntables $120
4"-deep drawer for cassettes, accessories .. $120
6.5"-deep drawer for CDs, video tapes $170

ACCESSORIES

SVC-1 Vibration Isolator
Isolation base with air springs to decouple turntable from air-borne and structure-borne vibrations. Features one 24.25" x 20.25" x 1.5" polished granite supported by air mounts. Requires bicycle pump or compressor to pump air into unit. Resonant freq 2.9 Hz; max loads 200 lbs; 24.5" w x 3.5" h x 20.25" d; 95 lb $1,435

PLF-2 Power-Line Filter
Eliminates subtle distortion caused by equipment interaction as well as power line noise and hash. Functions as a safety device for excessive voltage spikes and can be plugged between affected component and outlet. Features active-tracking circuits making it insensitive to load imp. Allows users to plug any combination of components with no side effects $695

SN-1 Static Neutralizer
Eliminates electrostatically-charged air particles that cause dust and debris accumulation on records. Generates positive and negative ions simultaneously. Operates continuously while record is playing. Fits onto turntable platform or clips onto dustcover. Power consumption 0.5 W; discharges 5000 V to safe levels (<100 V) within 2 sec. 6" w x 1.5" h x 1.5" d; 3 lb $355

MCU-1 Power Control Unit
Allows switch on any component to act as master power-up controller for an entire system. Component plugged into master receptacle will turn on/off at zero current crossover all components plugged into the other 4 switched recpetacles to eliminate turn-on transients. Features 15-amp circuit breaker. Surge current 250 amps max for all receptacles. 19" w x 1.5" h x 2" d; 5lb $355

FVS-1 Fan Ventilation System
Features rack-mountable panel; 1 fan; filter; vibration isolator; all mounting hardware. Noise level 26 dBA; air flow 45 CFM. Black anodized steel panel. 19" w x 6" h x 2" d; 4 lb $170
Additional fan $60

GB-12 Grounding Bus Bar
High purity copper bus bar eliminates hum induced by ground loops. Mounts into cabinet side. Includes all hardware. 1" w x 12" h x 0.25" d; 2 lb; 12" long $70

TDK

HD-11 Tape Deck Head Demagnetizer
Compact demagnetizer for open-reel or cassette decks. Color-coded LED's show charge status and operating mode. Plastic-covered pivoting tip discharges magnetic build-up on hard-to-reach heads $25

HD-01 Cassette-Deck Head Demagnetizer
Battery-operated demagnetizer housed in cassette shell. Discharges magnetic build-up. Recommended for decks that activate transport without power $17.50

HC-1 Cassette-Deck Head Cleaner
Designed to keep recording heads clean by removing oxide particles. Fits into deck like ordinary cassette. Use after every 8 hours $1.50

The listings are based on data provided by the manufacturers. For more product information, contact an authorized dealer or the manufacturer directly. Manufacturers' addresses and phone numbers are listed in the directory beginning on page 226.

TEAC

E-2 Bulk Eraser
Erases 7" and 10.5" reels; pilot light; circuit breaker $100.00

E-3 Tape Head and Guide Demagnetizer
Removes residual magnetism $39.99

Carrying Cases
ACC-36. Briefcase holds 36 cassettes $29.95
CDC-20. Briefcase holds 20 compact discs $29.95

Storage Cabinets
CSC-36. Holds 36 cassettes $19.99
ASC-42DX. Holds 42 cassettes $18.99

RMK Recorder Maintenance Kit
3 oz of HC-1 tape-head cleaner, 3 oz rubber cleaner/conditioner, 3 oz stainless polish, cotton swabs, cleaning cloth $9.99
HC-3. Replacement head cleaner; 2 oz $4.89
RC-3. Replacement rubber cleaner $4.19
SP-3. Replacement stainless polish $4.89

Cassette Head Cleaners
QP-001. Wet system $8.99
2031. Dry system $1.59

Cables
SAC-215. 15-ft low-capacitance shielded dual RCA-RCA interconnect cable $7.79
2321. 25-ft coiled stereo headphone extension cable with ¼" phone plug at 1 end and jack at other end $7.49

TECHNICS

SH-8000 Frequency Analyzer
Features 31-point warble-tone generator and 5-setting sound-level meter; tweeter-protector switch; sensitive condenser mike; switchable (fast/slow) meter response speed for indication of transient or average peaks; battery check switch and meter indication; carrying case. FR 20-20,000 Hz ± 2 dB; frequency precision ± 6% or better; output level/imp 70 mV/1 kilohm; SPL measurement range 35-105 dB SPL (0 dB = 2 x 10^{-4} μbar); power source DC 9 V; battery life 10 hours; 2.2 lbs $185

SH-F101 Active Tuned FM Wing Antenna
Compact dipole for reception in strong signal areas. Features auto electronic tuning circuit; high gain; manual tuning knob; die-cast base; relative gain -2 db; figure-8 pattern; half-power angle 90°; output imp 75 ohm; standing-wave ratio 1.2 or less; power source DC 18 V; 16.91" w x 6.36" h x 4.44" d; 1.9 lb $110

SH-90S Universal/P-Mount Headshell Adapter
Combination headshell/adapter allows use of P-mount cartridges in universal-headshell arms $30

TWEEK BY SUMIKO

Tweek Fluid
Reduces contact resistance and rectification effects in all metal-to-metal slip-on connections, such as cartridge leads, interconnects, speaker terminals. Designed to make metals act as if conductivity had been increased. Pre-cleaning needed only if contact is badly corroded or very dirty. Brush-on applicator bottle with 0.75 cc diluted in 6.25-cc isopropyl alcohol. Enough to treat an audio or video system 4 to 6 times $18

VANDERSTEEN AUDIO

OL-1 MC Pre-Preamplifier
Moving-coil preamp with variable loading and high-frequency roll-off. FR 1-500,000 Hz ± 3 dB; max output 2 V; THD 0.01%; IMD 0.01% IHF; 4" w x 2.5" h x 6" d; 5 lb $285

VOGEL'S BY TEI ELECTRONICS

VE 2500 Speaker Base
3-position adjustable stand suitable for many speakers; sturdy impact-resistant ABS plastic; matte black; Max weight 55 lbs; min base 10" x 8" $44.09/pr

VE 2000 Speaker Stand
Epoxy-finished metal speaker stands with continuously adjustable slope angle. Speaker may sit unattached on stand or can be mounted to stand with double-sided tape or screws. For speakers with base at least 8.5" x 7.5". Max weight 45 lbs $36.59
VE 3000. Same as VE 2000 except max weight 66 lbs $45.29

DUO 220 Speaker Bracket
Speaker clamping bracket designed for speakers whose rear-panel construction makes them unsuitable for mounting with conventional brackets. Speaker clamps between 2 foam-rubber-covered 85-mm discs. Pivot point approx 6" from wall. Design to support loudspeaker with maximum weight of 45 lbs $34.19/pr

BEK 100 Speaker Bracket
Rotating speaker-mounting bracket can be fixed to virtually any wall. Can be adjusted vertically and horizontally. Black-finished steel supports speaker weighing up to 55 lbs. Bracket completely hidden by loudspeaker $22.19/pr

Minor 50 Speaker Bracket
Wall bracket for mounting smaller speakers. Continuously adjustable through 180° horizontally and 30° vertically. Black-finished steel supports 10 lbs. Bracket completely hidden by speaker $11.59/pr

YALE AUDIO

"Set-It-To-Here" Position Markers
Adhesive vinyl appliques indicate where controls should be set. Includes straight and curved arrows; arrows pointing to lines; pointing hands; switches; buttons in; buttons out. Useful for tone controls, equalizer sliders, tape-monitor buttons, processing loops, etc. Black, red, or white. Useful for complex systems $6.49

YAMAHA

YSR-20B Audio Cabinet
Fits all standard size home audio components. Features glass lift top and doors. Available in black vinyl finish $400

YSR-27A Audio Cabinet
Genuine oak rack features glass door and oak lift-top $400

SLC-10 Equipment Rack
Black metal, fits all standard 19" rack mount components. Features rack or shelf mounting (4 shelves provided). 77 lb $399

YVR-2B Video Cabinet
Holds up to 27" video monitor and videocasette recorder. Features double glass doors. Black vinyl finish $300

YVS-1B Video Cabinet
Genuine oak cabinet holds up to 27" monitor and VCR. Features double glass doors and heavy-duty casters $250

SPS-10 Speaker Stands
Black wood finish $55/pr

POCKET STEREO

AIWA

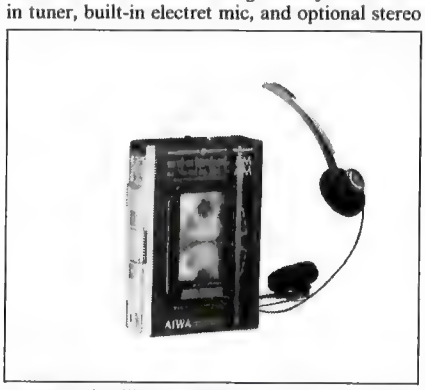
HS-J600A AM/FM Cassette Pocket Stereo
Features rechargable battery system; metal/CrO_2 EQ switch; Dolby B; EQ; autoreverse; anti-roll mechanism; recording capability; battery indicator. Uses 2 AAA batteries. 2.94" w x 4.5" h x 1.06" d; 9 oz $230
HS-J600. As above without rechargable battery system $210

HS-T600A AM/FM Cassette Pocket Stereo
Features rechargable battery system; metal/CrO_2 EQ switch; Dolby B; EQ; headphones; autoreverse; anti-roll mechanism. Uses 2 AAA batteries. 2.94" w x 4.5" h x 1.06" d; 8.7 oz..... $210

HS-J700A Autoreverse Pocket Stereo
Pocket cassette player/recorder with AM/FM radio. Features stereo recording directly from the built in tuner or from included one-point stereo mic; 3-way autoreverse; 3 FM presets; 4-band graphic EQ for playback; Dolby B (playback); one-hour battery charge system. AC-200 battery charger/AC adaptors and Ni-cad batteries supplied. Uses 2 AAA batteries. 3.19" w x 4.75" h x 1.19" d; 9.2 oz $200

HS-T500 AM/FM Cassette Pocket Stereo
Features remote control; music sensor with feather-touch control; metal/CrO_2 EQ switch; Dolby B; headphones; auto reverse; anti-roll mechanism; second headphone jack; battery indicator. Works with rechargeables. Uses 2 AAA batteries. 3.25" w x 4.5" h x 1.06" d; 9.4 oz..... $185

HS-J350 Autoreverse Pocket Stereo
Pocket cassette player/recorder with AM/FM radio. Features stereo recording directly from built-in tuner, built-in electret mic, and optional stereo



everse; anti-rolling mechanism; auto stop; LED indicator lights for operation and battery strength. AC operation with optional AC-620 or RB-100 adaptors. Operates on rechargeable nickel-cadmium battery. 3.06" wide x 4.56" high x 1.25" deep..... $150
HS-J360. Same as above without included accessories and one-point stereo mic. Includes built-in mic for mono recording $130

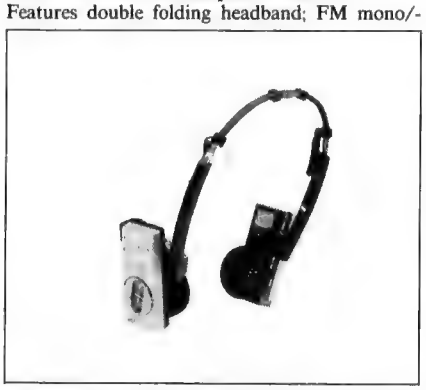
HS-G600 Autoreverse Pocket Stereo
Features metal/chrome EQ switch; Dolby B; EQ; headphones; anti-roll mechanism; battery indicator. Works with rechargeables. Uses 2 AAA batteries. 2.88" w x 4.19" h x 0.94" d; 7.6 oz . $150

HS-T200 Autoreverse AM/FM Pocket Stereo
Features metal/chrome EQ switch; Dolby B; anti-roll mechanism; battery indicator. Uses 2 AA batteries. 3.36" x 4.5" x 1.36"; 10.1 oz.... $115

HS-T360 Autoreverse AM/FM Pocket Stereo
Features 3-band graphic EQ; metal/CrO_2 tape selector; anti-rolling mechanism; compatible with rechargeable NiCad batteries. Uses 2 AA batteries (not included). 3.38" w x 4.5" h x 1.38" d; 10.01 oz..... $100
HS-T260. Same as above without autoreverse and graphic EQ $65

HR-SO1MKII AM/FM Pocket Stereo
Features folding headphones; second headphone jack. Uses 2 AA batteries. 4.6 oz $75

HR-SO8 AM/FM Headphone Receiver
Features double folding headband; FM mono/-



stereo switch; 15 mW output; FM wire antenna included; uses 1 AAA battery; weight (with battery) 95 grams. Available in red, black or silver $70

HR-SO6 FM Pocket Stereo
Features folding headphones. Uses 2 AAA batteries. 3 oz $65

ALARON

RY-381 AM/FM/Cassette Pocket Stereo
Cassette pocket stereo with AM/FM tuner. Features FM-stereo indicator; stop, FF, play cassette operation; belt-clip; slide volume control; stereo headphone; 3 V DC input jack. Uses 2 AA batteries. 5.38" x 3.75" x 1.75" $35

RY-379 AM/FM/Cassette Pocket Stereo
Cassette pocket stereo with AM/FM tuner. Features auto-stop; stop, FF, play cassette operation; belt-clip; volume control; stereo headphone. Uses 3 AA batteries (not included). 6.38" w x 3.5" h x 1.38" d $30

RY-280 Solar AM/FM Pocket Stereo
Solar cells recharge built-in Ni-Cad battery. Includes folding lightweight headphones; adjustable elastic arm band; pocket clip. 3.5" x 1.63" x 0.75" $30

RY-278 AM/FM Headphone Receiver
AM/FM-multiplex featherweight headphone radio with adjustable headband that folds up for storage. Features foam-padded earpieces; LED stereo indicator; in-out jack; doubles to connect with other personal or home stereos (connecting cables not included); operates on 2 AA batteries (not included)..... $25

RY-275 AM/FM Pocket Stereo
Includes folding headphones; adjustable elastic arm band; transparent pouch for all-weather use. 3.75" x 1.25" x 0.63" $24

RY-271 Cassette Pocket Stereo
Cassette pocket stereo features slide volume control; stereo headphone; high-impact case. Uses 2 AA batteries. 4.25" x 3.25" x 1.38" $20

RY-212 AM/FM/Cassette Pocket Stereo
Cassette pocket stereo with AM/FM tuner. Features FM-stereo indicator; belt-clip; carrying strap; L/R volume controls; stereo headphone. Uses 2 AA batteries. Available blue, black, or mauve; 5" x 3.25" x 1.38" $16

RY-273 Mini FM Receiver
Features headphon; slide switch for power and volume. Uses 3 A76 button-cell batteries (not included). 3" x 1.25" x 0.44" $12

HITACHI

CP-203R AM/FM Cassette Recorder
With headphones; locking rewind; auto stop. 3.5" x 5.5" x 1.5"; <1 lb..... $60

CP 201R AM/FM Cassette Player
Auto stop; fast forward and rewind; FM AFC; headphones; carrying clip; needs 2 AA batteries. FR 60-12,000 Hz ± 3 dB with normal tape; W&F 0.35% wrms. 12 oz; 3.33" w x 5.5" h x 1.36" d $30

JVC

CX-R7K AM/FM Pocket Cassette Recorder
Autoreverse AM/FM stereo cassette recorder with built-in battery charger. Features Dolby B NR (playback only); full-logic transport mechanism; Hi-Fi 4-track fixed head; 3-way reverse mode selector; normal/metal tape EQ selector; local/DX switch; control lock feature. Includes AC adaptor, rechargeable battery, stereo headphone, stereo microphone, and carrying case. 3.25" w x 4.69" h x 1.19" d; 8.72 oz. without battery $190

CX-F7K AM/FM Cassette Pocket Stereo
Autoreverse AM/FM stereo cassette player with rechargeable battery. Features Dolby B NR; full-logic transport mechanism; normal/metal tape EQ selector; 3-way reverse mode selector; Hi-Fi 4-track fixed head; control lock feature. Includes AC-R7 battery charger, rechargeable battery, stereo headphone, and carrying case. 3.19" w x 4.5" h x 1" d; 7.05 oz. without battery $160

CX-7K Cassette Pocket Stereo
Autoreverse stereo cassette player with rechargeable battery. Features Dolby B NR; full-logic

transport mechanism; normal/metal tape EQ selector; 3-way reverse mode selector; Hi-Fi 4-track fixed head; control lock feature. Includes AC-R7 battery charger, rechargeable battery, stereo headphone, and carrying case. 3.19″ w x 4.5″ h x 1″ d; 6.88 oz. without battery $130

MAGNAVOX

D6643 AM/FM Cassette Tuner
Autoreverse; 3-band graphic EQ; FM-stereo indicator; 3-V DC power jack; detachable belt clip

and carrying strap; headphones; anti-roll mechanism. Uses 2 AA batteries. 5.75″ x 3.25″ x 1.5″ $70

D6668 Rechargeable Cassette Player
With built-in NiCad batteries for 4 hrs of play; 3-band graphic EQ (bands at 100, 1,000, and 10,000 Hz); battery LED; electronic tape-speed control; AC adaptor for recharging (play possible during recharging); in-ear earphones; FF and rewind; EQ for normal or high-bias/metal tape; auto stop. 4.5″ x 3.5″ x 1″ $55

D6658 AM/FM-Stereo Cassette Tuner
3-band graphic EQ (bands at 100, 1,000, and 10,000 Hz); FF and rewind; lightweight headphones; belt clip; EQ for normal or high-bias/metal tape; electronic tape-speed control; FM-stereo LED; auto stop; needs 2 AA batteries. 5.25″ x 3.25″ x 1.5″ $50

D6648 AM/FM-Stereo Cassette Tuner
FF and rewind; auto stop; headphones; detachable belt clip; FM-stereo LED; needs 2 AA batteries. 3.25″ x 5.25″ x 1.5″ $45

D6636 AM/FM Cassette Tuner
FF and rewind; auto stop; AFC; 3-V DC power jack; anti-roll mechanism; headphones. Needs 2 AA batteries. 3.5″ x 4.5″ x 1.25″ $50

D1650 Credit-Card-Size AM/FM-Stereo Tuner
Collapsible headphones; dual-slider volume controls; belt clip; power LED; power switch in headphone jack; FM-stereo indicator; mono/stereo switch; in red, pink, lavender. Needs 2 AAA batteries. 2.5″ x 4″ x 0.5″ $25

D6607 Cassette Player
Anti-roll mechanism; lightweight headphones; locking FF; belt clip; auto stop. Needs 2 AA batteries. 4.75″ x 3.75″ x 1.25″ $25

D666 Cassette Player
Locking FF; auto stop; detachable belt clip; anti-roll mechanism; headphones. Uses 2 AA batteries. 4.5″ x 3.5″ x 1.25″ $25

PANASONIC

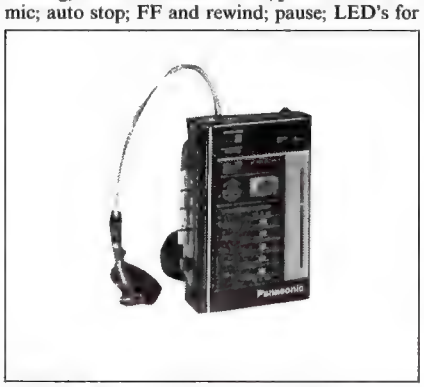
RX-SA79 AM/FM/Cassette Pocket Stereo
Extra Bass System (off, light, or heavy); autoreverse; NiCad battery charger for 3 hrs of play; 3-band graphic equalizer; Dolby NR; DX/local FM-sens switch; headphones; belt clip; auto stop; uses battery charger or 1 AA battery. 9 oz $160

RX-SA80 AM/FM/Cassette Pocket Stereo
PLL-synthesizer tuner with 12 presets; LCD tuning scale; metal/chrome EQ switch; Dolby B; headphones; autoreverse; anti-roll mechanism; tone switch. Needs 2 AA batteries. 10.5 oz; 3.25″ x 4.62″ x 1.44″ $130

RF-HX7 FM Stereo Radio Headphones
FM stereo tuner built into headphones with cord to connect to pocket cassette player or portable CD player; mica-filled flat diaphragms; soft mut-

ing; FM stereo/mono switch; power LED; LC-OFC connection cord and phone plug adaptor; needs 2 AAA batteries. 5.5 oz $100

RX-SR35 AM/FM/Cassette Recorder
5-band graphic equalizer; autoreverse; 1-touch recording; built-in condenser mic; jack for external mic; auto stop; FF and rewind; pause; LED's for



power/battery and FM stereo; bias/EQ for normal or chrome/metal tape; DX/local FM-sens switch; headphones; needs 2 AA batteries or optional AC adaptor. 10 oz $100

RX-SA78 AM/FM/Cassette Pocket Stereo
1 radio-station preset; headphones; autoreverse; built-in 5-band graphic equalizer; Dolby NR; anti-roll mechanism; bias/EQ for normal or chrome/metal tape; DX/local FM-sens switch; FM stereo LED; belt clip; 9 oz $100

RX-SR25 AM/FM/Cassette Recorder
1-touch recording; built-in condenser mic; FM stereo LED; auto stop; pause; bias/EQ for normal or chrome/metal tape; DX/local FM-sens switch; FF and rewind; headphones; belt clip; jack for external mic; needs 2 AA batteries or optional AC adaptor. 10 oz $80

RF-H25 AM/FM Pocket Radio
Rechargable credit-card-size pocket radio with built-in NiCad battery. Includes charger. 2.12″ x 3.62″ x 0.16″ $70

RX-1936 AM/FM/Cassette Pocket Stereo
3 radio-station presets; Ultra-Phonic mode to boost highs and lows; headphones; FF and rewind; auto stop; belt clip; needs 3 AAA batteries; LED's for batteries and FM stereo. 5.5 oz.. $65

RF-HD5 FM Stereo Headphone Radio
Splash-proof collapsible radio with rubber helical whip antenna; FM stereo/mono switch; DX/local FM-sens switch; plays up to 30 hrs on one AAA battery (not included). 3 oz $60

RX-SA66 AM/FM/Cassette Pocket Stereo
Autoreverse; Ultra-Phonic mode to boost highs and lows; anti-roll mechanism; DX/local FM-sens switch; FM stereo LED; belt clip; FF and rewind; headphones; needs 2 AA batteries or optional AC adaptor. 5.5 oz $55

RF-H8 AM/FM Headphone Radio
Folding headphone radio with built-in AM and FM antennas and optional external FM antenna; FM stereo/mono switch; in silver, burgundy, or blue; needs 1 AAA battery. 3 oz $50

RX-SA60 AM/FM/Cassette Pocket Stereo
With headphones; auto stop; DX/local FM-sens switch; FF and rewind; FM stereo LED; belt clip; needs 2 AA batteries or optional AC adaptor; in black, red, pink, or silver. 8 oz $35

RF-H20 AM/FM Pocket Radio
Features slide-rule tuning; FM soft muting; detachable belt clip; folding headphones. Needs 1 AAA battery. In black, yellow, or red. 3.94″ x 1.5″ x 0.36″; 1 oz $35

RF-435 AM/FM Pocket Radio
With headphones and built-in 4-band graphic equalizer; FM stero/mono switch; FM stereo LED; belt clip; slide-rule tuning; needs 2 AAA batteries. 3 oz $30

RF-H2 FM Stereo Headphone Radio
Open-air design; FM stereo/mono switch; DX/local FM-sens switch; built-in and external antennas; needs 1 AAA battery; in yellow, red, or lavender. 2 oz $27

RF-422 AM/FM Pocket Radio
With headphones; 4.3 oz without batteries; FM stereo/mono switch; FM stereo LED; slide-rule tuning; belt clip; needs 2 AAA batteries; in black, white, gray, or red. 4 oz $25

RF-411 FM Pocket Radio
With headphones; FM stereo/mono switch; FM stereo LED; belt clip; black, pink, or red. Uses 2 AAA batteries (not included). 4 oz; 2.12″ x 3.94″ x 0.62″ $20

RQ-JA61 Cassette Pocket Stereo
With headphones; auto stop; FF and rewind; belt clip; black, pink, or blue. Needs 2 AA batteries or optional AC adaptor. 7.5 oz. 3.36″ x 4.5″ x 1.44″ $20

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QUASAR

GX3686 Cassette/AM/FM Pocket Stereo
Features dynamic boost switch to boost bass and treble frequencies; autoreverse; metal/chrome EQ switch; Dolby B; headphones; anti-roll mechanism; FM AFC; tone switch. Uses 2 AA batteries. 3.25" w x 4.62" h x 1.36" d; 9.2 oz $97

GX3677 Cassette/AM/FM Pocket Stereo
Features autoreverse; metal/chrome capability; built-in condenser microphone. Use 2 AA batteries $90

GX3800 Cassette/AM/FM Pocket Stereo
Features autoreverse; built-in speakers; 3-band EQ; collapsible headphones; radio sleep switch; power/battery LED indicator; phone/speaker selector; flexible FM antenna. Operates on 3 AA batteries or optional KT655 AC adaptor $60

GX3676 Cassette/AM/FM Pocket Stereo
Features 3-band equalizer; autoreverse with direction button; local/DX switch; anti-roll mechanism; FM AFC; tone switch. Detachable belt clip and lightweight headphones included. Uses 2 AA batteries. 3.31" w x 5" h x 1.5" d; 11 oz ... $60

GX3667 Cassette/AM/FM Pocket Stereo
Features lightweight headphones; auto stop; fast forward and rewind; LED FM stereo indicator; local/DX switch. available in black, pink, or lavender. Uses 2 AA batteries $35

3666 Cassette/AM/FM Pocket Stereo
Features fast forward and rewind; auto stop; FM AFC. Detachable belt clip and lightweight headphones included. Uses 4 AA batteries. 3.5" w x 5.88" h x 1.56" d; 9.7 oz $35

REALISTIC

SCP-5 AM/FM Stereo Cassette Recorder
Autoreverse; Dolby B; EQ switch for all tapes; LED's for tape direction, FM stereo, low batteries; 2 AA batteries. 5.75" x 3.5" x 1.4" $80

SCP-24 AM/FM Stereo Cassette Player
L and R volume controls; FM stereo/battery LED; detachable belt clip; auto stop; needs 3 AA batteries. 5.7" x 3.7" x 1.6" $40

SCP-17 Stereo Cassette Recorder
Mono speaker; records in stereo with built-in mics; jacks for external mics; FF and rewind; L and R volume controls; compatible with rechargeable batteries; case with shoulder strap; needs 2 AA batteries. 5" x 3.4" x 1.9" $80

SCP-19 Stereo Cassette Player
Dolby B; autoreverse; EQ switch for all tapes; LED's for tape direction, batteries; belt clip; needs 2 AA batteries. 4.75" x 3.5" x 1.4" .. $60

SCP-20 Stereo Cassette Player
Equalizer boosts or cuts bands centered at 100, 1,000, and 10,000 Hz; auto stop; LED for batteries; detachable belt clip; needs 2 AA batteries. 4.5" x 3.25" x 1.3" $30

SCP-22 Stereo Cassette Player
L and R volume controls; auto stop; LED for batteries; detachable belt clip; needs 2 AA batteries. 4.5" x 3.5" x 1.4" $25

SCP-26 Stereo Cassette Player
Weatherproof housing; belt clip; needs 2 AA batteries. 4.75" x 4.1" x 1.75" $30

SANSUI

FX-W51R Cassette/AM/FM Pocket Stereo
Features 5-band graphic EQ; auto reverse; headphones. Uses 2 AA batteries. 3.25" w x 4.75" h x 1.25" d $120

FX-W31R Pocket Cassette Player
Auto-reverse pocket stereo cassette player with headphones. Uses 2 AA batteries. 3.25" w x 4.5" h x 1.5" d $68

SANYO

F4 Pocket AM/FM Stereo Cassette Player
Ultra-slim autoreverse cassette player with built-in AM/FM tuner. Features 2-way autoreverse; Dolby NR; FM-stereo indicator; rechargeable battery pack; auto-stop mechanism; AC adaptor; stereo headphones; battery indicator; carrying case; battery case. 4.06" x 2.69" x 0.81"; 5 oz .. $200

P4 Pocket Stereo Cassette Player
Ultra-slim autoreverse cassette player with Dolby NR. Features 2-way autoreverse; rechargeable battery pack; auto-stop mechanism; AC adaptor; stereo headphones; battery indicator; carrying case; battery case. 4.06" w x 2.69" h x .69" d; 4 oz $140

MGR 650D AM/FM Stereo Cassette Player
Mini-size autoreverse cassette player with built-in AM/FM tuner. Features 4-band graphic equalizer; Dolby NR; metal tape capability; FM-stereo indicator; built-in speaker; stereo headphones; 3-way power operation; case & strap $90

WR66 Pocket AM/FM Stereo Cassette Player
Mini-size splash-proof cassette player with built-in AM/FM tuner. Features specially sealed case; anti-rolling mechanism; AFC; stereo/mono switch; FM-stereo indicator; auto-stop mechanism; stereo headphones; belt clip; locking fast winds. Uses 2 AA batteries $70

MGR87 Pocket AM/FM Stereo Cassette Player
Mini-size autoreverse cassette player with built-in AM/FM tuner. Features 3-band graphic equalizer; rechargeable capability; auto-stop mechanism; locking fast winds; FM-stereo indicator; lightweight headphones; belt clip. Uses 2 AA batteries. Available in black, white, or red $50

RP80 AM/FM Stereo Headset Radio
Features fold-up one-piece design for compact storage; rotary volume and tuning controls; stereo/mono switch; mute switch; FM antenna socket. Uses 1 AAA battery, 4 oz $40

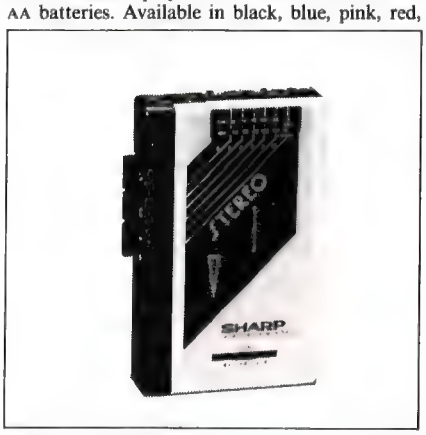
MGR74 Pocket AM/FM Stereo Cassette Player
Mini-size cassette player with built-in AM/FM tuner. Features 3-band graphic equalizer; autostop mechanism; locking fast winds; FM-stereo indicator; lightweight headphones; belt clip. Uses 3 AA batteries. Available in black, red, pink, violet, or yellow $30

SHARP

JC-850 Pocket Cassette Radio
Features rechargeable Ni-cad battery; AM/FM tuner; 3-band graphic EQ; listening while recharging; autoreverse; Dolby B; dynamic headphones. Uses AA batteries and AC adaptor. FR 40-16,000 Hz (CrO_2/Metal), 40-14,00 Hz (normal). 2.75" w x 4.53" h x 0.84" d; 7.02 oz. Available in black blue, red, silver $200

JC-R72 Pocket Cassette Radio
Stereo cassette player with AM/FM tuner, supplied charger, and Ni-cad batteries. Available in 5 colors. 3.5" w x 5.59" h x 1.63" d $50
JC-F3. Same as above without recharger ... $40

JC-128 Pocket Cassette Radio
Stereo cassette player with AM/FM tuner. Uses AA batteries. Available in black, blue, pink, red, and yellow. 3.44" w x 5.44" h x 1.44" d; 9.35 oz (without batteries) $29.95



SONY

WM-D6C Pocket Cassette Recorder
Features record and play modes; Dolby B & C; disc quartz-lock drive system; stereo mini microphone jack; anti-rolling mechanism; 3-way power supply. Includes headphones, case, and connection cord. Uses 4 AA batteries. 6.74" h x 1.5" w x 3.75" d; 1 lb, 7 oz $380

WM-D3 Pocket Cassette Recorder
Features record and play modes; Dolby B & C; disc drive; stereo mini microphone jack; anti-rolling mechanism; 3-way power supply. Includes headphones, case, connection cord, and strap. Uses 2 AA batterie. 5" h x 1.38" w x 3.25" d; 13.1 oz $250

WM-F200II Pocket Cassette/Radio
Features autoreverse; record and play modes; Dolby B; stereo mini microphone jack; belt drive system; anti-rolling mechanism; AM/FM tuner; local/DX switch; 3-way power supply. Includes

headphones, rechargeable battery, charger, one-point stereo microphone, and case. 2.75" h x 4.38" w x 0.88" d; 8.2 oz $240

WM-F107 Pocket Cassette/Radio
Features water-resistant design; Dolby B; belt drive system; anti-rolling mechanism; AM/FM tuner; local/DX switch. Includes headphones, built-in solar and rechargeable battery, battery case, and belt clip. 3.12" h x 4.38" w x 1.19" d; 10 oz $230

WF-F100II Pocket Cassette/Radio
Features autoreverse; Dolby B; belt drive system; anti-rolling mechanism; AM/FM tuner; local/DX switch; 3-way power supply. Includes headphones, rechargeable battery, charger, and case. 2.75" h x 4.36" w x 0.78" d; 7.1 oz $180

WM-F80 Pocket Cassette/Radio
Features autoreverse; graphic EQ; Dolby B; belt drive system; anti-rolling mechanism; AM/FM/TV-sound tuner; local/DX switch; 3-way power supply. Includes headphones, holder, and case. Uses 2 AA batteries. 4.75" h x 3.5" w x 1.19" d; 10.6 oz $160

WM-100II Pocket Cassette Player
Features autoreverse; Dolby B; belt drive system; anti-rolling mechanism; 3-way power supply. Includes headphones; rechargeable battery, charger, and case. Uses 1 AA battery. 2.75" h x 4.38" w x 0.78" d; 7.1 oz $130

WM-F76 Pocket Cassette/Radio
Features record and play modes; built-in speaker; Dolby B; stereo mini microphone jack; belt drive system; AM/FM tuner; local/DX switch; 3-way power supply. Includes headphones, one-point stereo microphone, AC adaptor, and belt clip. Uses 2 AA batteries. 4.72" h x 3.41" w x 1.42" d; 8.8 oz $130

WM-F73 Pocket Cassette/Radio
Features autoreverse; Dolby B; water-resistant design; belt drive system; anti-rolling mechanism; AM/FM tuner; local/DX switch; 3-way power supply. Includes headphones and belt clip. Uses 2 AA batteries. 3.48" h x 4.53" w x 1.42" d; 11.2 oz $120

WM-F77 Pocket Cassette/Radio
Features autoreverse; Dolby B; belt drive system; anti-rolling mechanism; AM/FM tuner; local/DX switch; 3-way power supply. Includes headphones and belt clip. Uses 2 AA batteries. 3.25" h x 4.38" w x 1.25" d; 10.6 oz $110

WM-F69 Pocket Cassette/Radio
Features autoreverse; 3-band graphic EQ; Dolby B; belt drive system; anti-rolling mechanism; AM/FM tuner; local/DX switch; 3-way power supply. Includes headphones and belt clip. Uses 2 AA batteries (not included). 5.28" h x 3.38" d x 1.33" d; 12.7 oz $100

WM-F68 Pocket Cassette/Radio
Features Dolby B; belt drive system; AM/FM tuner; local/DX switch; 3-way power supply. Uses 2 AA batteries. 4.97" h x 3.51" w x 1.73" d; 8.8 oz $90

WM-F46 Pocket Cassette/Radio
Features record and play modes; stereo mini microphone jack; belt drive system; AM/FM tuner; local/DX switch; 3-way power supply. Includes headphones and belt clip. Uses 2 AA batteries. 3.47" h x 5.5" w x 1.45" d; 12.3 oz $80

WM-F45 Pocket Cassette/Radio
Features water-resistant design; belt drive system; anti-rolling mechanism; AM/FM tuner; local/DX switch. Include headphones and strap. Uses 2 AA batteries. 5.5" h x 3.62" w x 1.5" d; 11.3 oz $80

SRF-5 Pocket Radio
FM-only radio with water-resistant design and local/DX switch. Includes headphones and holder. Uses 2 AA batteries. 1.5" h x 4" w x 0.56" d; 2.2 oz $65

SRF-F1 Pocket Radio
FM-only radio designed to attach to any standard-size headband. Features built-in rechargeable battery and water-resistant design. Includes headphones, headband, armband, and DC-DC charger. 1.88" h x 3.38" w x 0.59" d; 1.4 oz $65

WM-45 Pocket Cassette Player
Features water-resistant design; belt drive system; anti-rolling mechanism; belt clip. Includes headphones. Uses 2 AA batteries. 5.5" h x 3.62" w x 1.5" d; 9.2 oz $60

WM-F43 Pocket Cassette/Radio
Portable AM/FM pocket stereo cassette player. Features 3-band graphic EQ; belt drive system; AM/FM tuner; local/DX switch;3-way power supply. Includes headphones and belt clip. Uses 2 AA batteries. 3.5" h x 5.25" w x 1.44" d; 8.6 oz $57

WM-68 Pocket Cassette Player
Features Dolby B; belt drive system; belt clip; 3-way power supply. Includes headphones. Uses 2 AA batteries. 8.1 oz $55

SRF-4 Pocket Radio
AM/FM radio with water-resistant design and local/DX switch. Includes headphones and holder. Uses 2 AA batteries. 2.25" h x 4.25" w x 0.84" d; 4 oz $50

WM-F41 Pocket Cassette/Radio
Features belt drive system; AM/FM tuner; local/DX switch; 3-way power supply. Includes headphones and belt clip. Uses 2 AA batteries. 3.38" h x 5.25" w x 1.83" d; 8.5 oz $45

SRF-R7 Headphone Radio
Features AM/FM tuner and local/DX switch. Uses 2 AA batteries. 4.8 oz $45

WM-43 Pocket Cassette Player
Features 3-band graphic EQ; belt drive system. Uses 2 AA batteries. 4.75" h x 3.5" w x 1.44" d; 7.8 oz $43

SRF-FM2 Headphone Radio
FM-only radio with local/DX switch. Uses 2 AA batteries. 3.6 oz $33

WM-41 Pocket Cassette Player
Features belt drive system; belt clip. Includes headphones. Uses 2 AA batteries. 3.38" h x 4.75" w x 1.38" d; 6.9 oz $32

SRF-35W Pocket Radio
AM/FM radio with 3-band graphic EQ and local/DX switch. Includes headphones and belt clip. Uses 2 AA batteries. 3.41" h x 2.72" w x 0.88" d; 4.4 oz $30

SRF-19W Pocket Radio
AM/FM pocket radio uses 2 AA batteries. 4.33" h x 2.38" w x 0.88" d; 3.6 oz $23

SRF-16W Pocket Radio
FM-only radio with local/DX switch. Include headphones and belt clip. Uses 2 AA batteries. Available in different colors. 2.5" h x 4.38" w h 0.88" d; 1.7 oz $18

TOSHIBA

KT-4097 Remote Control Pocket Stereo
6-function wired remote control; autoreverse cassette; Dolby B NR; auto shut off; rechargeable Ni-Cd battery $180

KT-4077. Same as above without battery recharger $160

KT-4087 Rec/Play AM/FM Pocket Stereo
AM/FM pocket stereo with recording capability, and built-in tuner. Features built in mic for rec; 3 band graphic EQ; autoreverse; Dolby B NR; AM/FM tuner $160

KT-4068 Cassette/AM/FM Pocket Stereo
Digital tuning; 5 AM/5 FM preset tuning; 3 band graphic EQ $120

KT-4066 Cassette/AM/FM Pocket Stereo
Features digital tuning; auto reverse; Dolby B; 3-band graphic EQ; headphones; anti-roll mechanism; balance control. Uses 2 AA batteries. 3.31" w x 4.92" h x 1.36" d; 9.9 oz..... $110

KT-4065. Same as KT-4068 without graphic EQ $100

KT-4057 Cassette/AM/FM Pocket Stereo
AM/FM stereo; cassette; 3 band graphic EQ $100
KT-4047. Similar to above $80
KT-4037. Similar to above $70

KT-4026 Cassette/AM/FM Pocket Stereo
Features 3-band graphic equalizer; headphones; anti-roll mechanism; balance control; tone switch; tone control. Uses 2 AA batteries. FR (radio) 88-108 MHz. 3.25" w x 5" h x 1.44" d; 8.3 oz..... $60

Stereo Pocket Radios

RP-2066 Headphone/Radio
1-piece design headphone/AM/FM radio. Digital tuning with 5 AM 5 FM preset stations $170

RP-2057. Digital pocket AM/FM radio w/ 10 total presets; headphones $60

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BLANK TAPE

BASF

Metal IV Cassette
Metal particle formulation features high performance cassette mechanism.
C120. 120 min $5.99

Chromdioxid Maxima II Cassettes
High-density chrome formulation features high-performance cassette mechanism.
C90. 90 min $2.99
C60. 60 min $2.24

Chromdioxid Extra II Cassettes
Pure chrome formulation features high-performance cassette mechanism.
C120. 120 min $2.99
C90. 90 min $2.49
C60. 60 min $1.74

LH Maxima I Cassettes
Ferric tape with high maximum-output-level for increased signal-to noise ratio. Features high-performance cassette mechanism.
C90. 90 min $1.79
C60. 60 min $1.49

LH Extra I Cassettes
Ferric tape with extended S/N and precision mechanism.
C90. 90 min $1.49
C60. 60 min $1.24

DENON

All Denon cassettes feature large window, life-time warranty, head cleaning leader, and transparent, H-shaped slip sheets for optimal back tension.

High Density Series

HD-M Metal Cassettes
High-stability pure metal tape formulation uses high-density dispersion technology that yields a residual magnetic flux density of over 3,500 Gauss and a coercivity of 1,200 Oersted.
HDM-90. 90 min $6.50
HDM-60. 60 min $5

HD8 High-Bias Cassettes
High-density metal particle formula uses New High Technoroum magnetic pigment to increase residual flux density to 2,800 gauss yielding an MOL of −3.5 dB at 10 kHz.
HD8-90. 90 min $4.75
HD8-60. 60 min $3.75

HD7 High-Bias Cassettes
Type-II formulation with extended high-frequency response and low noise. Residual flux density 1,700 Gauss, MOL −7.0 dB at 10 kHz.
HD7-90. 90 min $3
HD7-60. 60 min $4

HD6 High-Bias Cassettes
Type-II formulation with extended high-frequency response. Residual flux density 1,700 Gauss, MOL −6.0 dB at 10 kHz.
HD6-90. 90 min $3.25
HD6-60. 60 min $2.50

DX Series

DX4 Ferric Normal Cassettes
Type-I formulation with extended frequency response. Residual flux density 1,700 Gauss, MOL −4.5 dB at 10 kHz.
DX4-90. 90 min. $4
DX4-60. 60 min. $3

DX3 Ferric Normal Cassettes
Improved DX3 offers a 12% increase in both retentivity and coercivity yielding better high-frequency response and dynamic range. MOL −6.0 dB at 10 kHz.
DX3-90. 90 min $3
DX3-60. 60 min $2.50

DX1 Ferric Normal Cassettes
Low-noise high-output type I cassette with high sensitivity and high MOL (−9.5 dB at 10 kHz).
DX1-90. 90 min $2.25
DX1-60. 60 min $1.75

FUJI

FR Series Cassette Tape
Type I normal-bias casettes with 120 μs EQ and cobalt-modified fine Beridox particles.
FR (C-46). 46 min $2.69
FR (C-60). 60 min $2.99
FR (C-90). 90 min $3.99

FR Series Metal Cassette Tape
Metal-coated tape with tensilized polyester base; designed for metal bias, 70-μsec EQ; packaged in hinged plastic box.
FR (C-46). 46 min $5.79
FR (C-60). 60 min $6.39
FR (C-90). 90 min $8.49

FR-I Super Series Cassette Tape
Super-premium Type I normal-bias casettes with 120 μs EQ and cobalt-modified fine Beridox magnetic particles.
FR-I Super (C-46). 46 min $3.79
FR-I Super (C-60). 60 min $4.19
FR-I Super (C-90). 90 min $5.49

FR-II Series Cassette Tape
Chromium-dioxide cassettes with tensilized polyester base; designed for Type II/CrO_2 bias, 70-μsec equalization; packaged in hinged plastic box. Features super-fine Beridox magnetic particles
FR-II (C-46). 46 min $3.99
FR-II (C-60). 60 min $4.49
FR-II (C-90). 90 min $5.99

FR-II Super Series Cassette Tape
Super-premium Type II high-bias casettes with 70 μs EQ and cobalt-modified super-fine Beridox magnetic particles.
FR-II Super (C-46). 46 min $4.39
FR-II Super (C-60). 60 min $4.89
FR-II Super (C-90). 90 min $6.49

DR Series Cassette Tape
DR (C-46). 46 min $2.39
DR (C-60). 60 min $2.59
DR (C-90). 90 min $3.49
DR (C-120). 120 min $4.99

GT-II Series Cassette Tape
High bias, 70-microsecond EQ. Heat-resistant tape, shell, and clear plastic case. Dual spring pressure pad.
C-46. ..... $4.39
C-60. ..... $4.89
C-90. ..... $6.49

GT-I Series Cassette Tape
Normal bias, 120 μsec EQ car audio cassette with heat-resistant tape, shell, and clear plastic case; tensilized polyester backing.
GT (C-46). 46 min $3.79
GT (C-60). 60 min $4.19
GT (C-90). 90 min $5.49

GOLDSTAR

All tapes have tensilized polyester base material; tape width 3.81 mm; tape length 135 m; yield strength (5%) kg; breaking strength 1.0 kg; residual elongation 0.05%; squareness ratio 0.85; sens uniformity 0.3 dB; output fluctuation 0.4 dB (except for HD: 0.5 dB).

HD Normal-Bias Cassettes
Coercivity 340 Oe; retentivity 1,300 Gauss; sens +0.5 dB (315 Hz).
C-90. 45 min per side $2

HR Normal-Bias Cassettes
Coercivity 340 Oe; retentivity 1,500 Gauss; sens +1.0 dB (315 Hz).
C-90. 45 min per side $3

HZ Normal-Bias Cassettes
Coercivity 360 Oe; retentivity 1,600 Gauss; sens +2.0 dB (315 Hz).
C-90. 45 min per side $4

CRX High-Bias Cassettes
Cobalt-doped iron-oxide particles. Coercivity 550 Oe; retentivity 1,600 Gauss; sens +2.5 dB.
C-90. 45 min per side $5

MTX Metal-Bias Cassettes
Pure metal particles. Coercivity 1,050 Oe; retentivity 3,000 Gauss.; sens +2.0 dB (315 Hz)
C-90. 45 min per side $6

IRISH

High-Output Cassettes
Precision-shell ferric cassette in Norelco box.
XR-90. 45 min per side $2.70
XR-60. 30 min per side $2.10

Low-Noise Cassettes
Precision-shell ferric cassette in Norelco box.
LN-90. 45 min per side $2.15
LN-60. 30 min per side $1.75
LN-30. 15 min per side $1.50

JVC

ME-PROII Metal Cassette Tape
Metal-particle tape with high magnetic density and high particle acicularity for high MOL. Coercivity 1,100 Oe.
ME-90PII. 90 min $3.90

BLANK TAPE

UFII High-Bias Cassette Tape
Coercivity 660 Oe.
UFII-90. 90 min $1.75
UFII-60. 60 min $1.50

UFI Normal-Bias Cassette Tape
Coercivity 380 Oe.
UFI-90. 90 min $1.65
UFI-60. 60 min $1.20

G1 Normal-Bias Cassette Tape
Popular series. Coercivity 370 Oe.
C-90. 90 min $1
C-60. 60 min $0.85

LASER BY SWIRE MAGNETICS

Laser UHD-II Cassettes
High-bias ferric cassettes with high energy and extended frequency response.
C-90. 45 min per side $2.59
C-60. 30 min per side $1.99

Laser UHD-I Cassettes
Normal-bias ferric cassettes with high-energy, high-density formulation.
C-90. 45 min per side $2.59
C-60. 30 min per side $1.99

Laser XL Cassettes
Normal-bias ferric cassettes with extra low noise for voice or music.
C-120. 60 min per side $2.49
C-90. 45 min per side $1.89
C-60. 30 min per side $1.49
C-45. 22.5 min per side $1.39

MAXELL

Digital Audio Tape
Features Ceramic-Armor metal-particle formulation.

R-120DM. 120 min $14.99

MX Metal Cassettes
Metal bias/EQ.
MX-46. 46 min $3.98
MX-60. 60 min $4.61
MX-90. 90 min $6.15

XLII-S Epitaxial Cassettes
High-level bias; 70-μsec EQ.
XLII-S60. 60 min $3.77
XLII-S90. 90 min $4.82

XLI-S Epitaxial Cassettes
Normal bias; 120-μsec EQ.
XLI-S60. 60 min $3.77
XLI-S90. 90 min $4.82

XL-II Epitaxial Cassettes
Chrome type; high-level bias; 70-μsec EQ.
C-46. 46 min $3.14
C-60. 60 min $3.24
C-90. 90 min $3.87

UDS-I Normal Bias Cassettes
Features phase accuracy shell, frictionless slip sheets, Quin-Lok hubs, cleaning leader.
C-46 ..... $2.30
C-60 ..... $2.50
C-90 ..... $3.24

UDS-II High-Bias CrO_2 Cassettes
Features phase accuracy shell, frictionless slip sheets, Quin-Lok hubs, cleaning leader.
C-46 ..... $2.30
C-60 ..... $2.50
C-90 ..... $3.24

Normal-Bias Cassettes
UR-46. 46 min $1.45
UR-60. 60 min $1.56
UR-90. 90 min $1.80
UR-120. 120 min $2.70

Open-Reel Tapes

XLII Open-Reel Tapes
Designed for use with EE-tape-capable decks.
XLII 35-90. 1,800 ft $16.68
XLII 35-180. 3,600 ft $45.56

XLI Back-Coated Open-Reel Tapes
XLI 35-90B. 1,800 ft, 7″ reel $12.59
XLI 35-180B. 3,600 ft, 10.5″ reel $35.16

Ultra-Dynamic Open-Reel Tapes
UD50-60. 1,200 ft, 7″ reel $8.70
UD35-90. 1,800 ft, 7″ reel $9
UD35-180. 3,600 ft, 10.5″ reel $27.98

MEMOREX BY MEMTEK

CDX II High Bias Cassettes
Metal tape for High Bias (type II) setting. Superior tape for recording CD or digitally-sourced music at high bias, 70 μ sec setting. Greater headroom for distrotion-free reproduction at significsantly higher recording levels than conventional high bias tapes. New permanent reference cassette mechanism shell. **C-90** $4.99

HBX II High-Bias Cassettes
High-performance ferric/cobalt tape for use at high bias 70 μ sec setting. Higher MOL's, greater sensitivity compared to standard high bias and CrO_2 tapes. New permanent reference cassette mechanism.
HBX II High Bias C-90 ..... $3.79
HBX II (type II) C-60 ..... $2.99

HB II High-Bias Cassettes
Premium tape for high bias 70 μ sec EQ position. Improved low end MOL, greater sensitivity, new permanent reference cassette mechanism.
HB II High Bias C-90 ..... $2.79
HB II (type II) C-60 ..... $2.29

MRX I Normal-Bias Cassettes
Premium normal bias tape. Full lifetime warranty. High visibility clear shell
C-90 ..... $2.69
C-60 ..... $2.19

dbs Normal Bias Cassettes
Normal-bias tapes for all general purpose voice or music recording. Features high-visibility clear shell
C-120 ..... $2.59
C-90 ..... $1.79
C-60 ..... $1.49
C-46 ..... $1.29

NAKAMICHI

ZX Reference Cassette Tapes
Metalloy (metal-particle) formulation for recording on metal-compatible decks only; features ultra-high coercivity and retentivity for improved distortion and MOL; 70-μsec EQ.
ZX-C60. 60 min $7.25
ZX-C90. 90 min $10

SX II Reference Cassette Tapes
Double-coated ionized cobalt and ferric-oxide formulation. CrO_2 bias and EQ (70 μsec).
SXII-C60. 60 min $6.50
SXII-C90. 90 min $8.90

SX Reference Cassette Tapes
Single-coated ionized cobalt and ferric oxide formulation; high coercivity permits use of CrO_2 bias and EQ (70 μsec) for 4-5 dB better S/N ratio.
SX-C60. 60 min $4.50
SX-C90. 90 min $6.50

EX II Reference Cassette Tapes
Single-coated ferricobalt formulation; same bias and EQ (120 μsec) as EX tape; extra-low noise, high output.
EXII-C60. 60 min $4.25
EXII-C90. 90 min $6

PANASONIC

CrO_2-Position Cassettes
RT-90EX2. C-90 length. 2 pack $9.95

Normal-Bias Cassettes
RT-60EN2. C-60 length. 2 pack $3.95
RT-80EN2. C-90 length. 2 pack $5.45
RT-60FS2. Fashion series. C-60 length. Color-tinted shell. 2 pack $5.45

Microcassettes
RT-602 MC. C-60 length. 2 pack $5.95
RT-604 MC. C-60 length. 4 pack $11.95
RT-90 AMC. C-90. Angrom composition . $6.95

REALISTIC

Cassette Tape
Prices may vary according to quantity purchased, with prices lower per tape with larger quantities.

MIV Type IV Metal Cassette Tape
Fine-grain metal particles; 5-screw housing; hinged storage box.
MIV-90. 90 min ..... $6.99-$4.89
MIV-60. 60 min ..... $5.99-$4.19

MII Metal Type II High-Bias Tape
Metal tape for recording and playback with Type II bias and EQ; head-cleaning leader; hinged storage box.
MII-90. 90 min ..... $5.69-$3.99
MII-60. 60 min ..... $4.89-$3.43

HD Hi-Definition Chrome-Equivalent
For recording and playback with high-bias Type II bias and EQ; head-cleaning leader; hinged storage box; index card.
HD-90. 90 min ..... $4.29-$2.97
HD-60. 60 min ..... $3.49-$2.45

XR Type I Premium Ferric Tape
Hinged storage box with index card.
XR-120. 120 min ..... $4.99-$3.29
XR-90. 90 min ..... $3.79-$2.59
XR-60. 60 min ..... $2.79-$1.89
XR-45. 45 min ..... $2.45-$1.79

LN Low-Noise Type I Standard Ferric
Hinged storage box with index card.
LN-120. 120 min ..... $3.49-$2.29
LN-90. 90 min ..... $2.79-$1.85
LN-60. 60 min ..... $1.99-$1.29
LN-30. 30 min ..... $1.59-$1.05

Concertape Type I Cassettes
C-120. 3-pack; each 120 min ..... $4.99-$4.39
C-90. 3-pack; each 90 min ..... $3.59-$3.19
C-60. 3-pack; each 60 min ..... $2.59-$2.29
C-30. 3-pack; each 30 min ..... $1.99-$1.79
C-90. Single; 90 min $1.25
C-60. Single; 60 min $0.88

BLANK TAPE

Open-Reel Tape

Supertape Premium. Polyester base, super-calendared.
5" reel; 900 ft; 1.0 mil; 1-9 tapes .... $3.99 each
5" reel; 900 ft; 1.0 mil; 10+ tapes ... $3.19 each
7" reel; 1,200 ft; 1.5 mil; 1-9 tapes .. $5.99 each
7" reel; 1,200 ft; 1.5 mil; 10+ tapes.. $4.79 each
7" reel; 1,800 ft; 1.0 mil; 1-9 tapes .. $6.99 each
7" reel; 1,800 ft; 1.0 mil; 10+ tapes.. $5.59 each
7" reel; 3,600 ft; 0.5 mil; 1-9 tapes . $12.99 each
7" reel; 3,600 ft; 0.5 mil; 10+ tapes. $10.39 each

Low-Noise. Polyester base.
7" reel; 1,800 ft; 1.0 mil ..... $5.99-$4.39 each
7" reel; 2,400 ft; 0.5 mil ..... $6.99-$5.19 each
7" reel; 3,600 ft; 0.5 mil ..... $7.99-$6.39 each

Concertape. Polyester base.
7" reel; 1,800 ft; 1.0 mil ..... $2.49 each

8-Track Cartridges

Supertape. 90 mins total time.
1-11 cartridges ..... $3.99 each
12-24 cartridges ..... $3.49 each
25-49 cartridges ..... $3.19 each
50+ cartridges ..... $2.99 each

Low Noise. Polyester base. 40 mins.
1-11 cartridges ..... $1.99 each
12-24 cartridges ..... $1.79 each
25-49 cartridges ..... $1.59 each
50+ cartridges ..... $1.39 each

Low Noise. Polyester base. 80 mins.
1-11 cartridges ..... $2.69 each
12-24 cartridges ..... $2.39 each
25-49 cartridges ..... $2.15 each
50+ cartridges ..... $1.89 each

Microcassettes

Micro-90. Max-length microcassettes record 90 mins at 2.4 cm/sec or 180 mins at 1.2 cm/sec. For capstan-drive recorders. 1-9 tapes $6.95 each
Micro-90. 10 or more tapes ..... $5.95 each
Micro-60. Records 60 minutes at 2.4 cm/sec and 120 mins at 1.2 cm/sec. For capstan-drive recorders. 1-9 tapes ..... $3.49 each
Micro-60. 10 or more tapes ..... $2.99 each

Minicassettes

Mini-30. For rim-drive recorders such as Realistic Minisette. 30-min recording time. 1-9 tapes ..... $2.89 each
Mini-30. 10 or more tapes ..... $2.49 each

SCOTCH

XSM IV Cassettes

Fine metal magnetic particle formulation; delivers maximum output up to 10 dB better than typical oxide tapes and up to 7 dB greater than chrome tapes; low distortion, added high-frequency response, and improved S/N ratio.
60 min $5.49
90 min $6.99

XS II Cassettes

Features redeveloped premium grade formula with improved signal-to-noise ratio; less tape hiss; dual-layer, cobalt-modified ferric oxide; for use with recorders in the chrome or 70 μsec equalization position; improved shell for critical mechanical permanence and 3-head equipment.
60 min $2.99
90 min $3.79

CX Cassettes

Normal-bias ferric oxide cassette featuring improved low frequency output and clarity. 6-screw impact polymer shell houses an inner assembly with low-friction roller guides.
60 min $2.40
90 min $2.99

BX Cassettes

Ferric-oxide formulation for all-purpose cassette use; polyester base. 5-screw impact polymer shell featuring low-friction roller guides and high-impact case.
60 min $1.69
90 min $1.95

SONY

ES Metal Cassette

Type-IV position (70 microsecond equalization)
ES-90. 90 min $11.95

UX Series Cassettes

Type-II position (70 microsecond equalization)
UX II. C-60 ..... $4.10
UX II. C-90 ..... $5.50
UX-S II. C-60 ..... $4.75
UX-S II. C-90 ..... $6.95
UX-ES II. C-60 ..... $5.25
UX-ES II. C-90 ..... $7.95
UX-Pro IV. C-60 ..... $7.95
UX-Pro IV. C-90 ..... $9.95

HF-S Series Cassettes

Type I position (Normal bias, 120 microsecond equalization)
HF-S 60. 60 min $3.10
HF-S 90. 90 min $4.25

HF Series Cassettes

Type I position (Normal bias, 120 microsecond equalization)
HF 46. 46 min $2.05
HF 60. 60 min $2.25
HF 90 90 min $3.15
HF 120. 120 min $4.05

Microcassettes

3MC-60N. 60/120 min $2.75
MC-60N. 60/120 min $2.75
MC-90N. 90/180 min $8

TDK

MA-XG Metal-Alloy (Type IV) Cassette Tape

Metal bias; 70-sec EQ; 3-layer RS-II vibration-damping mechanism designed to eliminate sympathetic vibrations for reduced modulation noise.
MA-XG 90. 45 min each side $9.25
MA-XG 60. 30 min each side $7

MA-X Metal-Alloy (Type IV) Cassette Tape

Metal bias; 70-sec EQ; 2-layer plastic mechanism; improved Finavinx formulation desinged for superior output level and wide dynamic range.
MA-X 90. 45 min each side $5
MA-X 60. 30 min each side $4.25

MA Metal-Alloy (Type IV) Cassette Tape

Metal bias; 70-sec EQ; Laboratory Standard mechanism.
MA-90. 45 min each side $4
MA-60. 30 min each side $3.50

HX-S High-Bias (Type II) Cassette Tape

Metal-particle tape for high-bias setting; Laboratory Standard mechanism.
HX-S 90. 45 min each side $4.50
HX-S 60. 30 min each side. $3.75

SA-XG High-Bias (Type I) Cassette Tape

RS-II high-performance cassette mechanism; Super Avilyn formulation.
SA-XG 90. 45 min each side $9.25
SA-XG 60. 30 min each side $7

SA-X High-Bias (Type II) Cassette Tape

2-layer shell; dual-coated Super-Avilyn formulation; 70-sec EQ.
SA-X 90. 45 min each side $3.50
SA-X 60. 30 min each side $3

SA High-Bias (Type II) Cassette Tape

Laboratory Standard Mechanism.
SA 90. 45 min each side $3
SA 60. 30 min each side $2.50

AD-X Normal-Bias (Type I) Cassette Tape

Super Avilyn particles for extra headroom; Laboratory Standard Mechanism. 120-μsec EQ.
AD-X 90. 45 min each side $3
AD-X 60. 30 min each side $2.50

AD-S Normal Bias (Type I) Cassette Tape

Rigid plastic C-Thru™ mechanism designed to control resonances. 120-sec EQ.
AD-S 90. 45 min each side $2.50

AD Normal-Bias (Type I) Cassette Tape

Linear ferric-oxide particles; Laboratory Standard Mechanism. 120-sec EQ.
AD-X90. 45 min each side $2.50
AD-X60. 30 min each side $2.25

D (Dynamic) Cassette Tape

Normal bias; 120-sec EQ; precision mechanism.
D-60. 30 min each side $1.75
D-46. 23 min each side $1.60
D-30. 15 min each side $1.50

Microcassettes

D-MC60B3. Same dynamic formulation as standard-size cassettes. Low noise for speech recording. 60 min ea; 3-pack $9

VISA
BY INTERWORLD ELECTRONICS INC.

UCX-II-S High Tech Turbo

High-bias cassette tape with ultra-refined CrO_2 coating and special housing.
60 min $3.49
90 min $4.99

UCX-II High Tech Turbo

High-bias cassette tape.
60 min $2.99
90 min $3.99

UFX-I High Tech Turbo

Ferric cassette tape with clear housing.
60 min $2.99
90 min $3.99

CX-II Professional Tape

High-bias cassette tape.
60 min $2.49
90 min $3.49

FDX-I Professional Tape

Ferric cassette tape.
60 min $1.99
90 min $2.79

Extra Performance II Tape

High-bias cassette tape.
60 min $1.99
90 min $2.49

High Performance I Tape

Ferric cassette tape with iron dioxide coating.
60 min $1.59
90 min $1.99

The listings are based on data provided by the manufacturers. For more product information, contact an authorized dealer or the manufacturer directly. Manufacturers' addresses and phone numbers are listed in the directory beginning on page 226.

AUDIO GLOSSARY

by William Burton

Note: Words in italics are defined elsewhere in the glossary.

AC (alternating current): The current that comes out of the power outlets in American homes, which alternates direction sixty times a second.

acoustic-suspension: A type of *infinite-baffle speaker* that uses the air pressure inside a sealed speaker box to control driver motion. It has no *port* or opening.

AM (amplitude modulation): A *band* of radio *frequencies* that carries information by changing the strength of the *signal.* Most AM broadcasts are in *mono,* but many stations are adding equipment to broadcast *stereo* AM programs. You must have an AM-stereo *tuner* to receive them in stereo.

amplifier: A separate component, or a section built into an integrated component, that makes the electrical *signal* stronger (increases its amplitude). A *power amplifier* must be connected to a *preamplifier* (or "control amplifier") to switch and process the sound. An *integrated amplifier* combines power-amplifier and preamplifier functions in the same unit. A *receiver* adds an *AM/FM tuner* to the integrated-amplifier configuration.

analog: Audio equipment or recording media that operate with *signals* whose waveforms are directly analogous to the sounds they represent; see *digital.*

automatic turntable: One that sets the *stylus* onto a record to begin play and removes it at the end of play without the user having to touch the tonearm.

autoreverse: A feature of some cassette decks that allows them to play or record both sides of a cassette without the user having to turn it over manually.

AUX (auxiliary): An input jack found on some *receivers, integrated amplifiers,* and *preamplifiers* that can be used to connect *source* components such as a compact disc player or a cassette deck but not *turntables,* which require special phono inputs.

balance: A control found on some *receivers, integrated amplifiers,* and *preamplifiers* that changes the relative volume of the left and right *channels.*

band: A particular part of a *frequency* spectrum. For example, a *graphic equalizer* may divide the audio frequency spectrum into ten bands, with one control to adjust the relative volume of each band. The *AM* and *FM* bands are distinct parts of the *RF (radio-frequency)* spectrum.

bass: The lower frequencies in the audio spectrum, such as those produced by a string bass or bass guitar. An instrument producing bass tones vibrates air more slowly than one producing *treble* tones.

bass-reflex: A type of speaker that has an opening, called a *vent* or *port,* in its enclosure so that the sounds produced by the backward motion of the bass driver(s) reinforce the sounds produced by the forward motion, which come out of the front.

belt-drive: A method of rotating the platter of a *turntable* by means of a belt, usually made of rubber, that connects the turntable's motor to the platter.

bias: A very high-*frequency* signal added to an audio signal being recorded on tape to reduce *distortion.* Type I (normal or ferric) tape requires less bias than Type II (chrome or chrome-equivalent) or Type IV (metal) tape.

cantilever: The rod or tube in a *phono cartridge* that holds the *stylus* and moves in response to the stylus's motion.

capstan: A rotating shaft in a tape recorder that pulls the tape across the *heads.* The tape usually travels between the capstan and the pinch-roller. A dual-capstan machine has two capstans; see *closed-loop.*

capture ratio: An important *specification* for an *FM tuner,* it indicates the minimum ratio between the strengths of two FM *signals* at the same *frequency* that enables the tuner to suppress the weaker signal by 30 *dB.* Smaller numbers indicate better performance.

cartridge, or phono cartridge: A small component mounted on the end of the tonearm in a *turntable,* it holds the *stylus* that fits in the record groove and vibrates as the record turns. The cartridge turns the vibrations of the stylus into a changing electrical current, or audio *signal.*

CD video (CDV): A compact disc that combines digital audio with video programs. CDV's are gold colored to distinguish them from silvery audio-only CD's.

channel: A distinct path for an audio *signal. Stereo* signals consist of two channels, left and right, which are sent to left and right *speakers* (or headphones), respectively (see *separation*). A *surround-sound* system adds one or more additional channels, usually for the rear. *Mono* (or monophonic) signals have only one channel.

closed-loop: A drive system used in tape decks where the tape is pulled by two *capstans,* one on either side of the *heads,* so the part of the tape being played or recorded is held taut and is fully isolated from the hubs.

compliance: A measurement of how easily the *stylus* of a *phono cartridge* can be moved by the grooves of a record. A high-compliance cartridge

has a more flexible stylus than a low-compliance cartridge.

crossover (network): A circuit that divides lower-*frequency* sounds from higher-frequency sounds. Crossovers are used in *speakers* that have more than one driver. In a two-way speaker system, for instance, the crossover sends the low frequencies to the *woofer* and the high frequencies to the *tweeter*. Crossovers are also available separately for use in more elaborate systems.

crossover frequency: The *frequency* at which an audio *signal* will be sent at equal levels to both outputs of a *crossover* circuit. If the crossover is set at 1,000 *Hz*, say, a 1,000-Hz signal will appear in both outputs, usually at half the original level.

dB (decibel): The common unit of volume (also called loudness or amplitude) of sound or of an electrical *signal* that represents sound. Technically, a decibel is a measure of the ratio between two power levels. When *sound-pressure level (SPL)* is measured in decibels, a whisper is about 40 dB and a jet engine about 120 dB. The decibel scale is logarithmic, which means that an increase of 10 dB represents a tenfold increase in power: it takes ten times as much energy to produce an SPL of 80 dB as one of 70 dB, even though 80 dB is subjectively only twice as loud as 70 dB. Doubling the power raises the SPL by about 3 dB; cutting the power in half reduces the volume about 3 dB. Doubling or halving the volume requires a change in SPL of about 10 dB.

dBf: One *decibel* referred to a standard power level of one femtowatt (one quadrillionth of a *watt*).

dbx: Ordinarily, a *noise-reduction* system—more precisely known as dbx II—developed by the dbx company and used in some cassette decks. This system reduces the *dynamic range* of the audio *signal* during recording, making the soft parts of the music louder and the loud parts softer. During playback, the processing is reversed, restoring the original dynamic range and reducing the noise added by the tape. The dbx I system is used in professional studio tape recorders. Another type of dbx noise reduction is used in the *MTS* stereo-TV broadcasting system.

DC (direct current): Electricity that flows in one direction only; see *AC (alternating current)*.

defeat: To bypass a *signal*-processing feature, removing it entirely from the circuit. *Tone controls* are sometimes accompanied by a tone-defeat switch, which enables the user to eliminate their effects without changing their settings, allowing easy comparisons of the sound with and without tone-control modifications.

digital: A digit is a number, and anything digital uses numbers in some way. A digital *tuner* may only use numbers on its front-panel display, or it may use digital-synthesis tuning circuits for improved reception. Compact discs contain a pattern representing a series of binary numbers (strings of ones and zeros); a CD player turns these numbers into a continuously changing current that represents the sound of the master recording. Digital audio tape (DAT) recorders turn *analog* input *signals* into binary numbers and record these on tape. For playback, the numbers are read from the tape and converted back into an analog audio *signal*.

dipole: A type of *speaker* that radiates as much sound from its rear as from its front.

dipole antenna: A type of antenna that receives radio broadcasts from two directions. A T-shaped folded dipole antenna is often included with a *tuner* or *receiver*.

direct-drive: A method of rotating a *turntable* platter by using the motor shaft as the platter spindle.

distortion: An unwanted alteration in an audio *signal*; also see *THD (total harmonic distortion)* and *noise*.

Dolby B and Dolby C: *Noise-reduction (NR)* systems designed and licensed by Dolby Laboratories for use in consumer tape recorders. They work by making the high sounds softer during recording and louder during playback. Dolby C is more effective than Dolby B, but Dolby B is more common.

Dolby HX Pro: A special circuit for tape recorders—the HX stands for headroom extension—that works by lowering the amount of *bias* added during recording when the *signal* being recorded already has a lot of high frequencies. The effect is to allow high frequencies to be recorded at higher levels with less *distortion*.

Dolby Surround: A system developed for movie theaters, now available in add-on home components and in some audio/video *receivers*, that adds two more audio *channels* (center-front and rear) to the ordinary right and left *stereo* channels. To derive the extra channels, a surround-sound decoder adds the left- and right-channel *signals* together for the center-front channel and subtracts them from each other for the rear channel, usually sent to two rear speakers.

dubbing: The process of making a recording of another recording. A dubbing cassette deck can record from one tape in one *transport* to another in a second transport. Dubbing can be done with two single-transport decks or one dual-transport deck.

dynamic range: The difference, in decibels *(dB)*, between the softest and the loudest possible sounds that a component can produce. Higher numbers are better because they mean the component can reproduce more of the full dynamics of recorded music played through it.

effective mass: A measurement of how much a tonearm resists motion. Tonearms must move quickly to follow the groove of a record, and lighter tonearms usually do this better than heavy ones.

efficiency: The ratio of the energy put into a component to the energy it produces. Usually specified for *speakers*, an efficiency measurement can be helpful in choosing the right *amplifier* for a particular speaker. Speaker efficiency can range from a fraction of 1 percent to as much as 10 percent or more, but this indicates nothing about sound quality, only quantity of acoustic energy for a given input power. A more common way of specifying speaker efficiency is *sensitivity*.

electrostatic: Some *speakers* and headphones use a method of producing sound by moving a flat diaphragm suspended in a high-voltage electrostatic field.

EQ (equalization): The process of

changing the relative volume levels of different parts of the audio *frequency* spectrum in order to compensate for losses or *distortion* at some stage of recording or reproduction. For instance, the output from *speakers* can be equalized to compensate for room acoustics. *Phono signals* require a specific type of playback equalization because of the equalization built into the process of cutting a record.

equalizer: A component, or part of a component, that can be used to equalize (see *EQ*) an audio *signal* received from a *source* component by dividing the signal into various separately adjustable *bands.* The most common type is the graphic equalizer, which derives its name from the way its sliding controls make a rough graph of the selected *frequency* changes on its front panel.

filter: A circuit that removes or attenuates a specific part of an audio *signal.* A subsonic (or infrasonic) filter removes *frequencies* below the audio range (below 20 *Hz*). Some cassette decks have *MPX* filters to remove the 19,000-Hz *stereo* pilot tone from *FM* broadcasts. *Tone controls* and *equalizers* are adjustable filters.

flutter: A wavering sound caused by quick changes in the speed of electromechanical components such as *turntables* and cassette decks. Expressed as a percentage of variation from the correct speed, flutter measurements are usually combined with *wow* measurements in a single *wow-and-flutter (W&F)* specification. Lower figures are better.

FM (frequency modulation): A type of radio broadcasting that carries audio information by changing the *frequency* of the broadcast signal. An FM station with a center frequency of 88.1 *MHz* will actually broadcast a *signal* that changes from slightly less than 88.1 MHz to slightly more according to the waveform being broadcast.

frequency: How often something vibrates or changes. Sounds are vibrations and can be represented by electrical *signals* that change at different rates; a low-pitched sound is represented by a slowly changing current, while a high-pitched sound is represented by a quickly changing current. Frequency is measured in cycles per second, or hertz (abbreviated *Hz*). Most people can hear notes as low as about 20 Hz and as high as 15,000 or 20,000 Hz. In terms of radio, frequency refers to the wavelength of the carrier signal of the station, such as 88.1 *MHz* for an *FM* station or 1,010 *kHz* for an *AM* station.

frequency balance: The relative volume of different parts of the audio frequency range, from low *bass* to high *treble.*

frequency response: This important *specification* indicates how evenly a component reproduces different *frequencies.* A typical spec might be 20 to 20,000 *Hz* ± 3 *dB*, which means that the component will reproduce sounds as low as 20 Hz and as high as 20,000 Hz, and all those in between, not more than 3 dB too loud or too soft. If a frequency-response specification does not include a tolerance (the plus-or-minus figure), it is essentially meaningless.

graphic equalizer: see *equalizer.*

head amp: see *MC (moving-coil).*

heads: The parts of a tape deck that impose a magnetic pattern on a tape (recording) or detect one that is already there (playback). Most audio decks also have another head for erasing tapes, randomizing the magnetic pattern on the tape so that a new one can be recorded. The heads of *analog* recorders are stationary, but those of *digital* audio tape (DAT) recorders rotate like the helical heads in videocassette recorders.

HX Pro: see *Dolby HX Pro.*

Hz (hertz): The standard unit of *frequency*, named after the German physicist Heinrich Hertz. Measurements in hertz represent cycles per second, that is, changes away from a basic state and back again. In audio, the basic state is defined either as ordinary air pressure (without sound) or its electrical equivalent (a zero-level *signal*).

impedance (imp): The measure, in *ohms*, of the total opposition (resistance and reactance) that a component has to electrical power.

infinite-baffle: A type of speaker where the back wave produced by the driver is prevented from interfering with the front wave, usually by placing the driver in a sealed enclosure. See *acoustic-suspension.*

infrared: A part of the electromagnetic spectrum that is invisible to the human eye. Infrared *frequencies* are used by wireless remote controls to send *signals* to the components they control.

integrated amplifier: A component that performs the functions of both a *preamplifier* and a *power amplifier.*

isolation: The separation between a structure and everything surrounding it; usually used in reference to *turntable* tonearms and platters.

kHz (kilohertz): 1,000 *Hz.*

LaserDisc: Pioneer's trademark for a laser-read videodisc. Other types of videodiscs are no longer available in the U.S. Because LaserDisc players are similar to compact disc players, some combination units can play both kinds of discs and even the new *CD videos.*

LCD (liquid-crystal display): A type of electronic readout that does not generate its own light, therefore using very little power.

LED (light-emitting diode): An LED readout that produces its own light.

linear-tracking tonearm: A type of tonearm that moves in a straight line across the radius of a record; see *pivoted tonearm.*

logic: In cassette decks, the ability to switch from one transport function, such as fast forward, to another, such as rewind, without first pressing the stop button; doing this in decks without logic controls can damage the tape. In a *surround-sound* system, logic circuits are used to process the encoded *signals* correctly.

matrix: Circuits in *surround-sound* processors that can synthesize a rear *channel* for ambience even if the original recording consists only of left and right *stereo* channels.

MC (moving-coil): A type of *phono cartridge* in which the magnets are stationary and the coils where the *signal* is generated move in response to the motions of the *stylus* in the record

groove. Some MC cartridges produce very little current, and their output must be amplified to standard levels by a "head amp" or pre-preamplifier before further processing by a *phono-preamplifier* section.

MHz (megahertz): One million *Hz.*

midrange: The part of the audio *frequency* spectrum between the *bass* and the *treble* frequencies. The midrange includes most voices and the fundamental tones produced by most musical instruments.

MM (moving magnet): The most common type of phonograph *cartridge.* A moving-magnet cartridge has magnets attached to the interior end of its *cantilever.* The *stylus* motion causes these magnets to move near coils of wire, generating an electric current representing the audio *signal.*

mono (or monophonic): An audio *signal* in which all the information is combined in one channel; also, a component that handles only one channel, such as a mono *amplifier* (used in pairs for *stereo* programs).

MPX (multiplex): A method of combining two or more *signals* into one signal. Some tape decks have an MPX *filter* that removes the 19,000-*Hz* pilot tone from *stereo FM* broadcasts.

MTS (multichannel television sound): The system devised by Zenith and dbx for *stereo* TV broadcasting in the United States. An MTS decoder, which may be built into an audio or video component, receives stereo broadcasts and produces stereo *signals* from them. See *SAP.*

mV (millivolt): One thousandth of a volt.

μs (microsecond): One millionth of a second.

μV (microvolt): One millionth of a volt.

noise: An unwanted part of a processed *signal* that is not related to the original signal. Audio noise usually sounds like hiss.

NR (noise reduction): One of several systems designed to reduce the *noise* added to an *audio signal* during recording; see *dbx* and *Dolby.*

ohm: The basic unit of *impedance.*

output level: A measure of how strong a *signal* is produced by a component, usually in relation to the strength of the signal put into it.

oversampling: A digital filtering technique used in some compact disc players. The 44.1-kHz *signal* from the CD is sampled at some multiple of that *frequency* (usually two or four times), which has the effect of raising the frequencies of any spurious signals created by the sampling process well above the audio range. The spurious signals can then be removed by an *analog filter* with a gentle slope, which is said to cause fewer phase irregularities than the sharp-cutoff filter needed without oversampling.

PCM (pulse-code modulation): A system of recording that encodes an audio *signal* in a series of binary numbers (ones and zeros). Compact disc players, *digital* audio tape (DAT) decks, and digital signal processors all use PCM encoding.

phono: Abbreviation for "phonograph"; used to refer to the low-level *signals* produced by a phono *cartridge* and to the phono input where a *turntable* is connected to a *preamplifier, integrated amplifier,* or *receiver.* Phono inputs use *RCA connectors,* sometimes called phono plugs.

pivoted tonearm: The most common type of tonearm, it swivels on a fixed point so that the *cartridge* at its end can track the record groove from edge to center along a shallow arc. See *linear-tracking tonearm.*

PLL (phase-locked loop): A type of *tuner* circuit that improves reception of radio broadcasts by locking the received *frequency* to a synthesized reference frequency, which is usually generated by a quartz crystal.

P-mount: A standardized type of *phono cartridge* that can be plugged into any P-mount tonearm without need of adjustment or calibration.

port: An opening in a *bass-reflex* speaker that allows the sound wave from the back of a driver to reinforce the sound wave from the front.

power amplifier: A component that is designed to take an audio *signal* from a *preamplifier* and make it strong enough to drive speakers.

preamplifier: A component that switches and processes audio *signals* from *source* components. The only amplification most preamplifiers do is of the low-level *phono* signals from *turntables* (more precisely, from phono *cartridges),* raising them to the same level as signals from other source components (called "line level") and applying the necessary *RIAA equalization.*

pre-preamplifier: see *MC (moving-coil).*

preset: On a *tuner* or *receiver,* a memory position where the *frequency* of a selected radio station can be entered for instant recall.

programming: Giving a component instructions to carry out at a later time. For instance, many compact disc players can be programmed to play selected tracks in any order.

quartz-synthesis: see *PLL.*

random access: The ability to go directly to any part of a recorded sequence without having to scan the intervening sections.

RCA connector: The most common kind of connector for home audio systems, using small, one-pin *phono* plugs. The cables usually come in pairs, with the right *channel* marked in red and the left channel in black, gray, or white.

receiver: An audio component that performs three basic functions: receiving radio broadcasts, switching and processing audio *signals,* and amplifying the selected signal so it can drive *speakers.*

RF (radio frequency): The very high-*frequency signals* used to broadcast radio programs.

RFI (radio-frequency interference): *Noise* created in audio systems by interference from strong, nearby radio broadcasts.

RIAA: The Recording Industry Association of America, which has set standards for the equalization used on phonograph records. Every record has reduced *bass* and boosted *treble,*

and these characteristics must be compensated for on playback by the *phono preamplifier.*

rms (root mean square): A common method of averaging power measurements.

rumble: A measurement of how much motor noise is transmitted through a *turntable* to the *cartridge.* Lower numbers are better.

SAP (separate audio program): A separate *mono channel* that is broadcast along with the two *stereo* channels in the *MTS* system for stereo TV. The SAP channel can be used for various purposes, such as providing an alternative soundtrack in a language different from that used in the primary channels.

scan: A *tuner* feature used to move quickly from one broadcast station to another, stopping on each *frequency* for a few seconds so the user can sample it. On compact disc players, the scan feature is used to move around quickly within a track.

selectivity (sel): A *specification* that tells how well a *tuner* or *receiver* can differentiate between the selected broadcast *channel* and other stations using nearby *frequencies.* Adjacent-channel selectivity (adj-ch sel) measures rejection of signals from stations broadcasting on either side of the selected station; alternate-channel selectivity (alt-ch sel) measures rejection of signals from stations two channels away from the desired one. Higher numbers are better for both of these specifications.

semiautomatic turntable: A type that lifts the tonearm from the record automatically at the end of the side, though the *stylus* must still be set into the lead-in groove by hand.

sensitivity (sens): A measurement of *speaker efficiency* that tells how much sound is produced 1 meter away from the speaker with an input of 2.83 volts (1 *watt* into 8 *ohms*). Higher numbers are better.

separation: The difference, measured in *decibels* (*dB*), between the left and right *channels* of an audio *signal,* indicating the amount of leakage between channels in a component. Higher figures are better.

signal: An electrical current that is modulated (changed) to represent information.

S/N (signal-to-noise ratio): The difference in level, measured in *decibels* (*dB*), between the loudest possible *signal* a component can produce and its residual *noise.* Higher numbers are better.

source: The program *signal* that is being recorded; also, components that provide program signals either by playing a recorded program (*turntables,* cassette decks, compact disc players, etc.) or receiving a broadcast program (*tuners* and *receivers*).

specification: A numerical measurement of a component's performance provided by the manufacturer.

speaker (or loudspeaker): a component that takes audio *signals* from a *receiver* or *amplifier* and converts them into sound waves.

SPL (sound-pressure level): A measure of acoustic energy, usually encountered in the *sensitivity* rating of a *speaker*; see *dB.*

stereo: The use of at least two separate *channels* (*signal* paths) to create the illusion that real music is being produced in the space between, and even beyond, a pair of *speakers.*

stylus: The needle-shaped material, usually diamond, at the end of the *cantilever* of a *phono cartridge* that is vibrated by the groove on a record.

subwoofer: A separate *speaker* designed to reproduce *bass* frequencies only. Subwoofers sometimes contain an *amplifier* and a *crossover* network.

surround sound: see *Dolby Surround.*

THD (total harmonic distortion): The percentage of an *audio signal* that consists of harmonics—multiples of the fundamental frequencies—introduced by an *amplifier* or other component in its handling of the original signal. Lower numbers are better.

tone controls: Volume controls that affect only certain parts of the audio *signal,* usually the *bass* and *treble,* sometimes also the *midrange.*

tracking: The ability of a compact disc player or *phono cartridge* to follow the pattern recorded on a CD or vinyl record.

tracking error: In playing a record, the tonearm should hold the *cartridge* as perpendicular to the record's diameter as possible. The amount of degrees off is the tracking error.

tracking force: The pressure of a *stylus* on a record, usually measured in grams.

transport: The parts of a tape deck that move the tape, including the motor(s), hubs, *capstan(s),* pinch-roller(s), and other mechanisms.

treble: The high part of the audio *frequency* range; see *bass* and *midrange.*

tuner: A component that receives radio *signals* from an antenna and allows the user to select a specific station from the signals received.

turntable: Also known as a phonograph or record player, a turntable rotates vinyl records at the appropriate speed; see *cartridge* and *stylus.*

tweeter: A driver in a *speaker* that is designed to reproduce *treble* sounds (high *frequencies*).

vent: see *port.*

volume: The measure, usually in *decibels* (*dB*), of the strength of a soundwave or of an audio *signal.*

W/ch (watts per channel): A *specification* that indicates how much power an *amplifier* or *receiver* will deliver to each of a pair of *speakers.*

W&F (wow-and-flutter): A combined *specification* indicating the speed accuracy of mechanical components such as *turntables* and cassette decks. Lower figures are better; see *wow* and *flutter.*

woofer: A driver in a *speaker* designed to reproduce the low, or *bass,* part of the audio *frequency* spectrum.

wow: A measurement of slow speed variations; usually combined with *flutter,* a measurement of fast speed variations. Lower figures are better.

wrms (weighted root mean square): see *rms.* □

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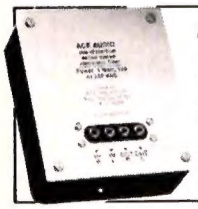

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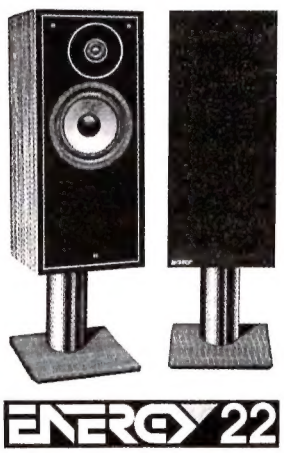

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Index To Advertisers

READER SERVICE NO.		PAGE NUMBER
29	Acoustic Research	53, 137, 169
30	Advent	25
—	AKAI	22-23
—	AKG Acoustics	183
80	Altec Lansing	16-17
—	Audio Products International	
84	DBL	11
81	ESM	15
85	Energy	13
45	SPL	9
61	Audio Research	59-60
57	Azden Corp.	187
87	Beyer Dynamic	185
18	Carver Corp.	46-47
—	CBS Compact Disc Club	81
82	Cerwin Vega	51
—	Custom Woodwork & Design/ CWD	205
77	Dahlquist, Inc.	147
12	Denon America, Inc.	57
20	Design Acoustics	149
10	Discwasher	207
90	Dual	91
74	Electronic Wholesalers	77
—	Harman Kardon	170-171
—	Illinois Audio	125
89	Jamo	155
37	Klipsch	157
73	Koss Corporation	55
67	Lineage Corporation	63
38	Luxman	4-5
39	Magnepan	159
50	Mission Electronics	160
62	Mitek	165
47	Nakamichi	3
88	Nationwide Electronics	93
—	Onkyo USA Corp.	45
60	O'Sullivan Industries	208
83	Perreaux	64
70	Pioneer Electronics	27-42
24	Polk Audio	Cov.2-pg. 1
—	RCA Music Service	67
78	Sansui Electronics Corp.	Cov. 3
19	Sherwood Electronics Lab	49
1	Signet	177
—	TDK Electronics Corp.	Cov. 4
66	Teac Corporation of America	21
—	Wisconsin Discount Stereo	107

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*120 watts per channel, min. RMS, both channels driven into 8 ohms from 20 to 20,000 Hz with no more than 0.018% THD.

CIRCLE NO. 78 ON READER SERVICE CARD

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TYPE I (Normal Position)

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SA-X The world's quietest tape formulation—a dual coating of Super Avilyn—plus a unique DLM (Dual Layer Mechanism) delivers improved frequency response with virtually no noise. Record on home component systems, high-end portables.

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MA-XG Capture the full dynamics of digitally-sourced material on MA-XG. The ultimate metal tape features TDK's new three-layer RS-II vibration dampening mechanism, which virtually eliminates vibration—delivering the purest, clearest sound. Record on high-end metal compatible decks.

MA-X Our Super Finavinx metal tape formulation and new DLM (Dual Layer Mechanism), which virtually eliminates vibration, allows MA-X to deliver a richer, wider dynamic range with clearer sound. Record on all metal compatible decks.

MA Superior sound reproduction with super-wide dynamic range are the characteristics of MA. It delivers true metal tape performance at an affordable price. Great for digitally sourced music, too. Record on all metal compatible decks.

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